Algebra 2 2.1-2.3 Worksheet

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2. Determine whether the relation is a function.
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Tell whether the function is linear. Then evaluate the function when \( x = −6 \).

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Tell whether the function is linear. Then evaluate the function when \( x = -6 \).

8. \( f(x) = 3x + 4 \)

9. \( f(x) = x^3 - 7 \)

10. \( f(x) = 4 + x \)

11. Find the slope of the line passing through the points \((7, -4)\) and \((-6, -7)\).
Algebra 2 2.1-2.3 Worksheet

1. Find the range of the relation \( \{(-1, 0), (3, 5), (-2, -2)\} \).

2. Determine whether the relation is a function. 
   
   \((0, 4), (1, 4), (2, 5), (3, 6), (4, 6)\)

3. Determine whether the relation is a function. 
   
   \((4, 0), (4, 1), (5, 2), (6, 3), (6, 4)\)

4. Determine whether the relation is a function. 
   
   \((-3, 3), (-2, 2), (-1, 1), (1, -1), (2, -2), (3, -3)\)

5. What is the domain and what is the range of the function in the graph?

6. What is the range of the function in the graph?

7. What is the domain of the function in the graph?

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Tell whether the function is linear. Then evaluate the function when \( x = -6 \).

8. \( f(x) = 3x + 4 \)

9. \( f(x) = x^3 - 7 \)

10. \( f(x) = 4 + x \)

11. Find the slope of the line passing through the points \((7, -4)\) and \((-6, -7)\).
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

15. Find the slope of the line passing through (–1, 7) and (–6, 10).

16. Line 1 contains (–3, 5) and (2, 0). Line 2 contains (1, –3) and (–1, 3). Are the lines parallel, perpendicular, or neither?

17. Line 1 contains (2, –4) and (0, 2). Line 2 contains (–4, 5) and (–1, 6). Are the lines parallel, perpendicular, or neither?

18. Which equation has the steeper graph, \( y = \frac{5}{3}x - 2 \) or \( y = \frac{3}{2}x + 3 \)?

19. Which equation has the steeper graph, \( y = \frac{3}{5}x - 2 \) or \( y = \frac{2}{3}x + 3 \)?

20. Which equation has the steeper graph, \( y = \frac{7}{4}x + 5 \) or \( y = \frac{5}{3}x - 2 \)?

21. Graph \( y = \frac{3}{2}x + 3 \).

22. \( y = -\frac{3}{4}x + 3 \)
12. Find the slope of the line.

13. Find the slope of the line passing through \((3, -1)\) and \((6, 4)\).

14. Find the slope of the line passing through \((4, -1)\) and \((5, -2)\).

15. Find the slope of the line passing through \((-11, 7)\) and \((-6, 10)\).

16. Line 1 contains \((-3, 5)\) and \((2, 0)\). Line 2 contains \((1, -3)\) and \((-1, 3)\). Are the lines parallel, perpendicular, or neither?

17. Line 1 contains \((2, -4)\) and \((0, 2)\). Line 2 contains \((-4, 5)\) and \((-1, 6)\). Are the lines parallel, perpendicular, or neither?

18. Which equation has the steeper graph, \(y = \frac{5}{3}x - 2\) or \(y = \frac{2}{3}x + 3\)?

19. Which equation has the steeper graph, \(y = \frac{7}{4}x + 5\) or \(y = \frac{5}{3}x - 2\)?

20. Which equation has the steeper graph, \(y = \frac{3}{2}x + 3\)?

21. Graph \(y = \frac{3}{2}x + 3\).

22. \(y = -\frac{3}{4}x + 3\)
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

15. Find the slope of the line passing through (–1 1, 7) and (–6, 10).

16. Line 1 contains (–3, 5) and (2, 0). Line 2 contains (1, –3) and (–1, 3). Are the lines parallel, perpendicular, or neither?

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19. Which equation has the steeper graph, \( y = \frac{7}{4}x + 5 \) or \( y = \frac{5}{3}x - 2 \)?

20. Which equation has the steeper graph, \( y = \frac{7}{4}x + 5 \) or \( y = \frac{5}{3}x - 2 \)?

21. Graph \( y = \frac{3}{2}x + 3 \).

22. \( y = -\frac{3}{4}x + 3 \)
12. Find the slope of the line.

\[ y = \frac{3}{5}x - 2 \]

13. Find the slope of the line passing through \((3, -1)\) and \((6, 4)\).

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15. Find the slope of the line passing through \((-11, 7)\) and \((-6, 10)\).

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20. Which equation has the steeper graph, \(y = \frac{7}{4}x + 5\) or \(y = \frac{5}{3}x - 2\)?

21. Graph \(y = \frac{3}{2}x + 3\).

Graph the equation.

22. \(y = -\frac{3}{4}x + 3\)
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

15. Find the slope of the line passing through (–1, 7) and (–6, 10).

16. Line 1 contains (–3, 5) and (2, 0). Line 2 contains (1, –3) and (–1, 3). Are the lines parallel, perpendicular, or neither?

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20. Which equation has the steeper graph, \( y = \frac{3}{2}x + 3 \)?

21. Graph \( \frac{3}{2}x + 3 \).

22. Graph \( y = -\frac{3}{4}x + 3 \).
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

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20. Graph \( y = \frac{3}{2}x + 3 \).

Graph the equation.

21. Which equation has the steeper graph, \( y = \frac{5}{3}x - 2 \) or \( y = \frac{3}{2}x + 3 \)?
12. Find the slope of the line.

13. Find the slope of the line passing through (3, −1) and (6, 4).

14. Find the slope of the line passing through (4, −1) and (5, −2).

15. Find the slope of the line passing through (−11, 7) and (−6, 10).

16. Line 1 contains (−3, 5) and (2, 0). Line 2 contains (1, −3) and (−1, 3). Are the lines parallel, perpendicular, or neither?

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19. Which equation has the steeper graph, $y = \frac{7}{4}x + 5$ or $y = \frac{5}{3}x - 2$?

20. Which equation has the steeper graph, $y = \frac{7}{4}x + 5$ or $y = \frac{5}{3}x - 2$?

21. Graph $y = \frac{3}{2}x + 3$.

Graph the equation.

22. $y = -\frac{3}{4}x + 3$
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

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20. Which equation has the steeper graph, $y = \frac{7}{4} x + 5$ or $y = \frac{5}{3} x - 2$?

21. Graph $y = \frac{3}{2} x + 3$.

22. $y = -\frac{3}{4} x + 3$
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

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21. Graph \( y = \frac{3}{2}x + 3 \).

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12. Find the slope of the line.

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21. Graph \( y = \frac{3}{2} x + 3 \).

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12. Find the slope of the line.

13. Find the slope of the line passing through \((3, -1)\) and \((6, 4)\).

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21. Graph \(y = \frac{3}{2}x + 3\).

Graph the equation.

22. \(y = -\frac{3}{4}x + 3\)
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

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20. Which equation has the steeper graph, \[ y = \frac{3}{2} x + 3? \]

21. Graph \[ y = \frac{3}{2} x + 3. \]
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

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21. Graph \( y = \frac{3}{2} x + 3 \).

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Graph the equation.
12. Find the slope of the line.

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12. Find the slope of the line.

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20. Which equation has the steeper graph, \( y = \frac{3}{2} x + 3 \)?

21. Graph \( y = \frac{3}{2} x + 3 \).

22. Graph the equation. \( y = -\frac{3}{4} x + 3 \).
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

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20. Which equation has the steeper graph, \( y = \frac{7}{4} x + 5 \) or \( y = \frac{5}{3} x - 2 \)?

21. Graph \( y = \frac{3}{2} x + 3 \).

22. \( y = -\frac{3}{4} x + 3 \)
12. Find the slope of the line.

13. Find the slope of the line passing through \((3, -1)\) and \((6, 4)\).

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20. Which equation has the steeper graph, \(y = \frac{7}{4} x + 5\) or \(y = \frac{5}{3} x - 2\)?

21. Graph \(y = \frac{3}{2} x + 3\).

Graph the equation.

22. \(y = -\frac{3}{4} x + 3\).
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

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12. Find the slope of the line.

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20. Which equation has the steeper graph, \(y = \frac{7}{4}x + 5\) or \(y = \frac{5}{3}x - 2\)?

21. Graph \(y = \frac{3}{2}x + 3\).

22. \(y = -\frac{3}{4}x + 3\)
12. Find the slope of the line.

13. Find the slope of the line passing through $(3, -1)$ and $(6, 4)$.

14. Find the slope of the line passing through $(4, -1)$ and $(5, -2)$.

15. Find the slope of the line passing through $(-11, 7)$ and $(-6, 10)$.

16. Line 1 contains $(-3, 5)$ and $(2, 0)$. Line 2 contains $(1, -3)$ and $(-1, 3)$. Are the lines parallel, perpendicular, or neither?

17. Line 1 contains $(2, -4)$ and $(0, 2)$. Line 2 contains $(-4, 5)$ and $(-1, 6)$. Are the lines parallel, perpendicular, or neither?

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19. Which equation has the steeper graph, $y = \frac{7}{4}x + 5$ or $y = \frac{5}{3}x - 2$?

20. Which equation has the steeper graph, $y = \frac{3}{2}x + 3$?

22. Graph $y = \frac{3}{4}x + 3$
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

15. Find the slope of the line passing through (–11, 7) and (–6, 10).

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20. Which equation has the steeper graph, \( y = \frac{7}{4}x + 5 \) or \( y = \frac{5}{3}x - 2 \)?

21. Graph \( y = \frac{3}{2}x + 3 \).

22. \( y = -\frac{3}{4}x + 3 \)
12. Find the slope of the line.

13. Find the slope of the line passing through (3, -1) and (6, 4).

14. Find the slope of the line passing through (4, -1) and (5, -2).

15. Find the slope of the line passing through (-11, 7) and (-6, 10).

16. Line 1 contains (-3, 5) and (2, 0). Line 2 contains (1, -3) and (-1, 3). Are the lines parallel, perpendicular, or neither?

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18. Which equation has the steeper graph, \(y = \frac{3}{5}x - 2\) or \(y = \frac{2}{3}x + 3\)?

19. Which equation has the steeper graph, \(y = \frac{7}{4}x + 5\) or \(y = \frac{5}{3}x - 2\)?

20. Which equation has the steeper graph, \(y = \frac{3}{2}x + 3\)?

21. Graph \(y = \frac{3}{2}x + 3\).

22. \(y = -\frac{3}{4}x + 3\)
12. Find the slope of the line.

13. Find the slope of the line passing through (3, -1) and (6, 4).

14. Find the slope of the line passing through (4, -1) and (5, -2).

15. Find the slope of the line passing through (-11, 7) and (-6, 10).

16. Line 1 contains (-3, 5) and (2, 0). Line 2 contains (1, -3) and (-1, 3). Are the lines parallel, perpendicular, or neither?

17. Line 1 contains (2, -4) and (0, 2). Line 2 contains (-4, 5) and (-1, 6). Are the lines parallel, perpendicular, or neither?

18. Which equation has the steeper graph, \( y = \frac{5}{3} x - 2 \) or \( y = \frac{3}{2} x + 3 \)?

19. Which equation has the steeper graph, \( y = \frac{3}{5} x - 2 \) or \( y = \frac{2}{3} x + 3 \)?

20. Which equation has the steeper graph, \( y = \frac{7}{4} x + 5 \) or \( y = \frac{5}{3} x - 2 \)?

21. Graph \( y = \frac{3}{2} x + 3 \).

22. \( y = -\frac{3}{4} x + 3 \)
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

15. Find the slope of the line passing through (–1, 7) and (–6, 10).

16. Line 1 contains (–3, 5) and (2, 0). Line 2 contains (1, –3) and (–1, 3). Are the lines parallel, perpendicular, or neither?

17. Line 1 contains (2, –4) and (0, 2). Line 2 contains (–4, 5) and (–1, 6). Are the lines parallel, perpendicular, or neither?

18. Which equation has the steeper graph, \( y = \frac{3}{5} x - 2 \) or \( y = \frac{2}{3} x + 3 \)?

19. Which equation has the steeper graph, \( y = \frac{7}{4} x + 5 \) or \( y = \frac{5}{3} x - 2 \)?

20. Which equation has the steeper graph, \( y = \frac{3}{2} x + 3 \)?

21. Graph \( y = \frac{3}{2} x + 3 \).

22. \( y = \frac{3}{4} x + 3 \)
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

15. Find the slope of the line passing through (–11, 7) and (–6, 10).

16. Line 1 contains (–3, 5) and (2, 0). Line 2 contains (1, –3) and (–1, 3). Are the lines parallel, perpendicular, or neither?

17. Line 1 contains (2, –4) and (0, 2). Line 2 contains (–4, 5) and (–1, 6). Are the lines parallel, perpendicular, or neither?

18. Which equation has the steeper graph, \( y = \frac{3}{5}x - 2 \) or \( y = \frac{2}{3}x + 3 \)?

19. Which equation has the steeper graph, \( y = \frac{7}{4}x + 5 \) or \( y = \frac{5}{3}x - 2 \)?

20. Which equation has the steeper graph, \( y = \frac{3}{2}x + 3 \) or \( y = \frac{3}{2}x + 3 \)?

21. Graph \( y = \frac{3}{2}x + 3 \).

22. \( y = \frac{3}{4}x + 3 \). Graph the equation.
12. Find the slope of the line.

13. Find the slope of the line passing through (3, –1) and (6, 4).

14. Find the slope of the line passing through (4, –1) and (5, –2).

15. Find the slope of the line passing through (–1 1, 7) and (–6, 10).

16. Line 1 contains (–3, 5) and (2, 0). Line 2 contains (1, –3) and (–1, 3). Are the lines parallel, perpendicular, or neither?

17. Line 1 contains (2, –4) and (0, 2). Line 2 contains (–4, 5) and (–1, 6). Are the lines parallel, perpendicular, or neither?

18. Which equation has the steeper graph, \( y = \frac{3}{5} x - 2 \) or \( y = \frac{2}{3} x + 3 \)?

19. Which equation has the steeper graph, \( y = \frac{7}{4} x + 5 \) or \( y = \frac{5}{3} x - 2 \)?

20. Which equation has the steeper graph, \( y = \frac{3}{2} x + 3 \)?

21. Graph \( y = \frac{3}{2} x + 3 \).

22. \( y = -\frac{3}{4} x + 3 \)
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. $y = 1$

24. Graph the equation $y = -\frac{2}{3}x - 2$.

25. Find the slope and $y$-intercept of the graph of $5x - 4y = 20$. 
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and y-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23.  \( y = 1 \)

24.  Graph the equation \( y = -\frac{2}{3}x - 2 \).

25.  Find the slope and y-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23.  \( y = 1 \)

24.  Graph the equation \( y = \frac{-2}{3} x - 2 \).

25.  Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. $y = 1$

24. Graph the equation $y = -\frac{2}{3}x - 2$.

25. Find the slope and $y$-intercept of the graph of $5x - 4y = 20$. 
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
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24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and y-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. $y = 1$

24. Graph the equation $y = -\frac{2}{3}x - 2$.

25. Find the slope and $y$-intercept of the graph of $5x - 4y = 20$. 
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \). 

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = \frac{2}{3} x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = \frac{-2}{3} x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. $y = 1$

24. Graph the equation $y = -\frac{2}{3}x - 2$.

25. Find the slope and $y$-intercept of the graph of $5x - 4y = 20$. 
23. \( y = 1 \)

24. Graph the equation \( y = -\frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
23. \( y = 1 \)

24. Graph the equation \( y = \frac{2}{3}x - 2 \).

25. Find the slope and \( y \)-intercept of the graph of \( 5x - 4y = 20 \).
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. {0,5,−2}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(\frac{-3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)

![Graph](image-url)
Algebra 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, -2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. \(\text{slope} = \frac{-3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)

21. [Graph Image]
Algebra 2.1-2.3 Worksheet
Answer Section

1. \{0,5,-2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)

21.
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, −2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; −14
9. Not linear; −223
10. Linear; −2
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. −1
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0,5,−2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. $0 \leq x \leq 4, 0 \leq y \leq 20$
6. $y = 100$
7. $1 \leq x \leq 6$
8. Linear; $−14$
9. Not linear; $−223$
10. Linear; $−2$
11. $\frac{3}{13}$
12. slope $= \frac{−3}{5}$
13. $\frac{5}{3}$
14. $−1$
15. $\frac{3}{5}$
16. neither
17. perpendicular
18. $y = \frac{5}{3}x − 2$
19. $y = \frac{2}{3}x + 3$
20. $y = \frac{7}{4}x + 5$

[Graph of a linear function]
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \( \{0, 5, -2\} \)
2. It is a function.
3. It is not a function.
4. It is a function.
5. \( 0 \leq x \leq 4, 0 \leq y \leq 20 \)
6. \( y = 100 \)
7. \( 1 \leq x \leq 6 \)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)

11. \( \frac{3}{13} \)

12. slope = \(-\frac{3}{5}\)

13. \( \frac{5}{3} \)

14. \(-1\)

15. \( \frac{3}{5} \)

16. neither

17. perpendicular

18. \( y = \frac{5}{3}x - 2 \)

19. \( y = \frac{2}{3}x + 3 \)

20. \( y = \frac{7}{4}x + 5 \)

21.
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0,5,−2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; −14
9. Not linear; −223
10. Linear; −2
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. −1
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \(\{0, 5, -2\}\)
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)

![Graph](image)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, -2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. $0 \leq x \leq 4, 0 \leq y \leq 20$
6. $y = 100$
7. $1 \leq x \leq 6$
8. Linear; $-14$
9. Not linear; $-223$
10. Linear; $-2$
11. $\frac{3}{13}$
12. slope = $-\frac{3}{5}$
13. $\frac{5}{3}$
14. $-1$
15. $\frac{3}{5}$
16. neither
17. perpendicular
18. $y = \frac{5}{3}x - 2$
19. $y = \frac{2}{3}x + 3$
20. $y = \frac{7}{4}x + 5$

![Graph of a line](image-url)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, −2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)

21. [Image of a graph representing a linear function]
1. \( \{0, 5, -2\} \)
2. It is a function.
3. It is not a function.
4. It is a function.
5. \( 0 \leq x \leq 4, 0 \leq y \leq 20 \)
6. \( y = 100 \)
7. \( 1 \leq x \leq 6 \)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \( \frac{3}{13} \)
12. slope = \( \frac{-3}{5} \)
13. \( \frac{5}{3} \)
14. \(-1\)
15. \( \frac{3}{5} \)
16. neither
17. perpendicular
18. \( y = \frac{5}{3}x - 2 \)
19. \( y = \frac{2}{3}x + 3 \)
20. \( y = \frac{7}{4}x + 5 \)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \(\{0, 5, -2\}\)
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. \(\text{slope} = \frac{-3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet

Answer Section

1. \{0,5,−2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; −14
9. Not linear; −223
10. Linear; −2
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. −1
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x − 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, -2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)

21. [Graph of a line]

[Graph of a line]
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0,5,−2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; −14
9. Not linear; −223
10. Linear; −2
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. −1
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, -2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, −2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; −14
9. Not linear; −223
10. Linear; −2
11. \(\frac{3}{13}\)
12. slope = \(-\frac{3}{5}\)
13. \(\frac{5}{3}\)
14. −1
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, -2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(\frac{-3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)

\[\text{Graph of a line with equation } y = \frac{7}{4}x + 5\]
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0, 5, −2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. \(\text{slope} = \frac{-3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0,5,\text{-}2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; \(-14\)
9. Not linear; \(-223\)
10. Linear; \(-2\)
11. \(\frac{3}{13}\)
12. slope = \(\frac{-3}{5}\)
13. \(\frac{5}{3}\)
14. \(-1\)
15. \(\frac{3}{5}\)
16. neither
17. perpendicular
18. \(y = \frac{5}{3}x - 2\)
19. \(y = \frac{2}{3}x + 3\)
20. \(y = \frac{7}{4}x + 5\)
Algebra 2 2.1-2.3 Worksheet
Answer Section

1. \{0,5,−2\}
2. It is a function.
3. It is not a function.
4. It is a function.
5. \(0 \leq x \leq 4, 0 \leq y \leq 20\)
6. \(y = 100\)
7. \(1 \leq x \leq 6\)
8. Linear; −14
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