Name _____ Date _____

2.4 Puzzle Time

What Do You Get When You Cross Peanut Butter And A Quilt?

Write the letter of each answer in the box containing the exercise number.

Write an equation of the parabola in vertex form.

1. passes through $(-5, 0)$ and has vertex $(-2, 1)$

2. passes through $(4, 10)$ and has vertex $(0, 0)$

3. passes through $(6, -1)$ and has vertex $(14, -20)$

4. passes through $(-5, -3)$ and has vertex $(7, 12)$

5. passes through $(9, 15)$ and has vertex $(-6, 21)$

6. passes through $(0, 0)$ and has vertex $(-10, -4)$

Write an equation of the parabola in intercept form.

7. x-intercepts of 10 and -2; passes through $(1, 4)$

8. x-intercepts of 9 and -3; passes through $(3, 4)$

9. x-intercepts of -5 and -1; passes through $(-10, 2)$

10. x-intercepts of 4 and 6; passes through $(2, 3)$

11. x-intercepts of -10 and 8; passes through $(-6, -4)$

12. x-intercepts of 0 and 4; passes through $(12, -8)$

Answers

B. $y = \frac{5}{8}x^2$

R. $y = \frac{2}{45}(x + 5)(x + 1)$

D. $y = \frac{1}{25}(x + 10)^2 - 4$

R. $y = \frac{19}{64}(x - 14)^2 - 20$

P. $y = -\frac{1}{9}(x - 9)(x + 3)$

A. $y = -\frac{2}{75}(x + 6)^2 + 21$

S. $y = -\frac{4}{27}(x - 10)(x + 2)$

E. $y = \frac{3}{8}(x - 4)(x - 6)$

A. $y = \frac{1}{14}(x + 10)(x - 8)$

E. $y = -\frac{5}{48}(x - 7)^2 + 12$

D. $y = -\frac{1}{12}x(x - 4)$

A. $y = -\frac{1}{9}(x + 2)^2 + 1$

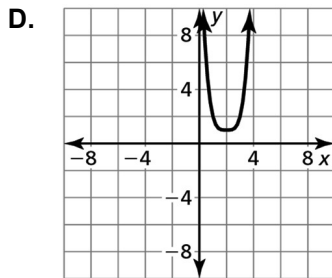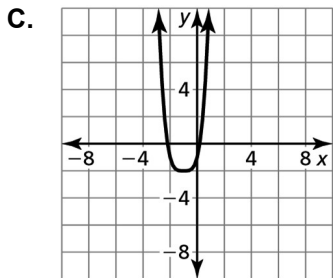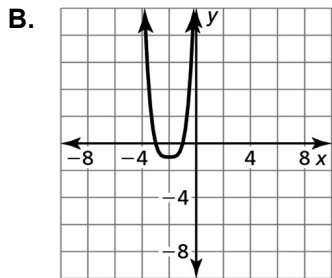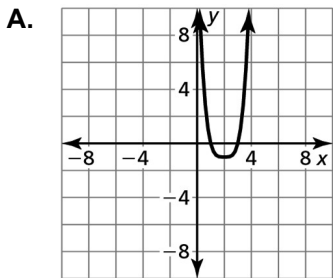| 1		2	3	4	5	6		7	8	9	10	11	12

4.7 Puzzle Time

What Day Does A Fish Hate The Most?

Write the letter of each answer in the box containing the exercise number.

Match the function with the correct transformation of the graph of $f(x) = x^4$.

1. $f(x) = (x - 2)^4 - 1$ **2.** $f(x) = (x + 1)^4 - 2$

3. $f(x) = (x - 1)^4 - 2$ **4.** $f(x) = (x + 2)^4 - 1$

5. $f(x) = (x - 2)^4 + 1$ **6.** $f(x) = (x + 2)^4 + 1$

A.

B.

C.

D.

E.

F.
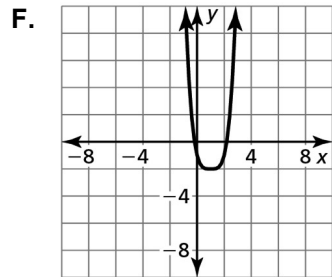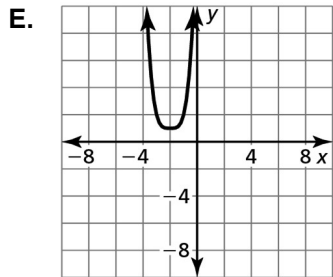
Answers
Y. E
R. C
Y. F
D. B
A. D
F. A

1	2	3	4	5	6