

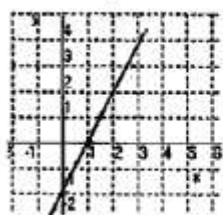
Answer key to Review for Final

1. (a) 0 to 3, 6 to 7 (b) 5 to 6 (c) 3 and 6 second

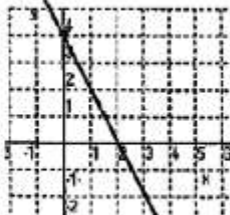
2. (a) $F = \frac{9}{5}C + 32$ (b) $100^\circ C$

3.

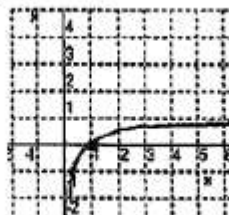
(a) $2x - y = 2$



(b) $y = -2x + 4$



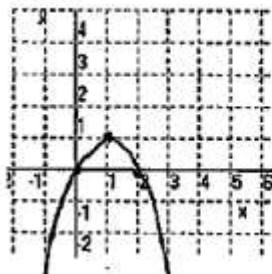
(c) $y = \log x$



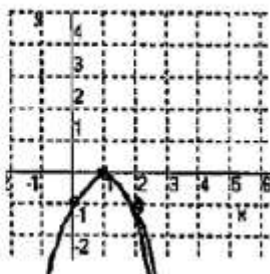
x	y
10	1
100	2
0.1	-1
1	0

(d) $y = -(x-1)^2 + 1$

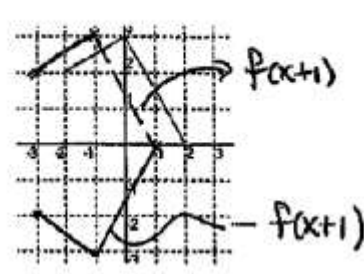
below.



(e) $y = -x^2 + 2x - 1$



(f) $y = -f(x+1)$ if the graph of $y=f(x)$ is given



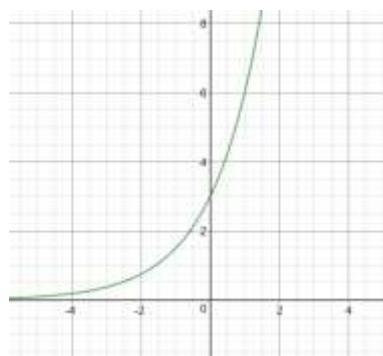
4. (a) 46.82 millions (b) 102.93 millions (c) about 29 years

5. (a) $A(x) = x(80 - 2x)$ (b) 20 by 40

6. (a) $y = -2x + 8$ (b) $y = 8 \cdot (0.5)^x$

7. (a)

(b) yes, it passes the horizontal line test (c) $f^{-1}(6) = 1$



8. (a) 18, 486 (b) $y = 2 \cdot \sqrt{3}^x$ (c) $x = 6$

9. (a) 1, -2/3 (b) 0, -2 (c) $\frac{3 \pm \sqrt{5}}{2}$ (d) $\ln 17$ (e) 16 (f) 9

10. 1.38 day

11. (1, -1)

12. 8 pounds of beans sold \$3.60, 16 pounds of beans sold at \$7.20