

10. Find the x- and y-intercepts of $y = 3x + 6$

A) x-intercept: 3 ; y-intercept: 6

B) x-intercept: -2 ; y-intercept: 6

C) x-intercept: 6 ; y-intercept: 3

D) x-intercept: 6 ; y-intercept: -2

11. If y varies directly with x and $y = 18$ when $x = 30$. Find y when $x = 20$.

A) 15

B) 27

C) 16

D) 12

12. Write in slope-intercept form the equation of a line having slope 8 and y-intercept -5

A) $x = 8y - 5$

B) $y = 8x + 5$

C) $y = \frac{1}{8}x + 5$

D) $y = 8x - 5$

13. Complete the table of values and write the solutions as ordered pairs for $y = x + 4$

x	y
	4
1	
2	
	7

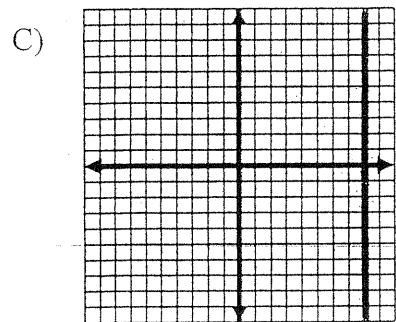
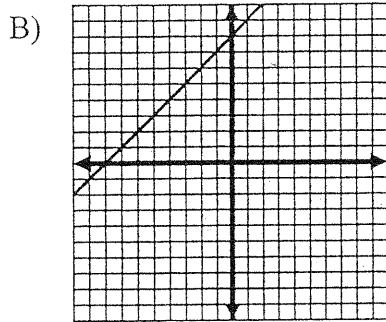
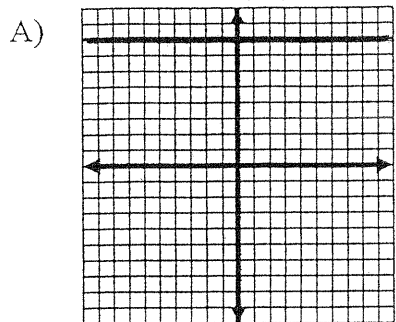
A) $A(0,4), B(1,3), C(2,5), D(3,7)$

B) $A(-1,4), B(1,5), C(2,6), D(4,7)$

C) $A(0,4), B(1,5), C(2,6), D(3,7)$

D) $A(4,0), B(5,1), C(6,2), D(7,3)$

14. Graph the equation: $x = 8$



D) none of these

15. Find the slope and y-intercept of the line $6x + 2y = -24$

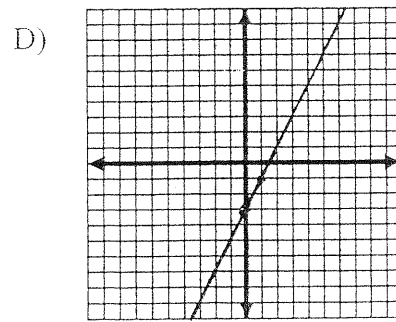
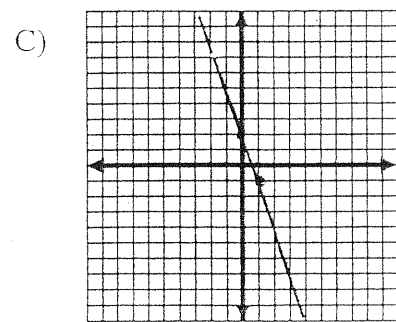
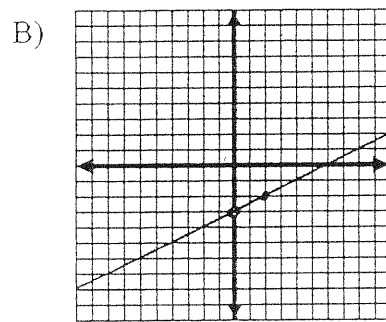
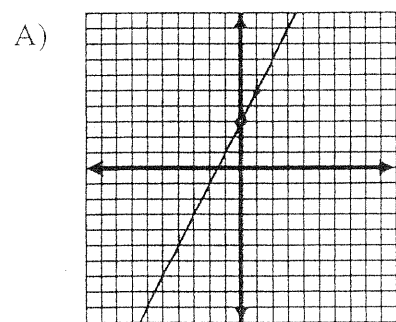
A) $m = 3, b = 12$

B) $m = -3, b = -12$

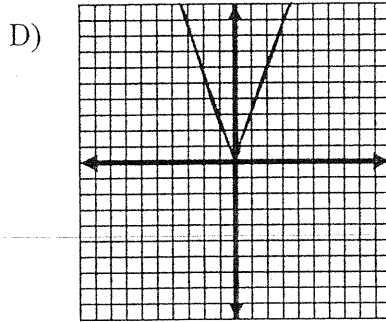
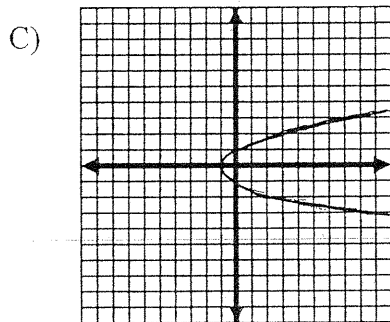
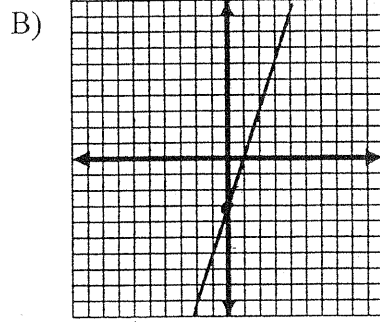
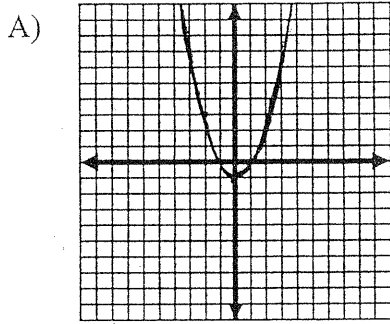
C) $m = 12, b = \frac{1}{3}$

D) $m = 18, b = -\frac{1}{3}$

16. Graph the equation: $y = 2x - 3$



17. Determine which of the following graphs does not represent a function.



18. Find $f(-3)$ given $f(x) = -4x + 1$

- A) 13 B) 11 C) -11 D) -15

19. The cost of a school banquet is \$75 plus \$14 per person attending. Determine the linear equation that models this problem.

- A) $y = 75x + 14$ B) $y = 14x - 75$ C) $y = 14x + 75$ D) $y = 75x - 14$

20. Write an equation in point-slope form of the line that passes through the point $(-5, -2)$ and has the slope $\frac{1}{2}$

A) $y - 2 = \frac{1}{2}(x - 5)$

B) $y + 2 = \frac{1}{2}(x + 5)$

C) $y - 5 = \frac{1}{2}(x - 2)$

D) $y + 5 = \frac{1}{2}(x + 2)$