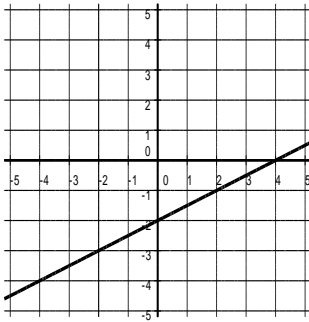


Math 94 Review for Test 2: Sections 3.3, 4.1 – 4.4, 5.1 – 5.2 ANSWERS

1a) (2,1) 1b)

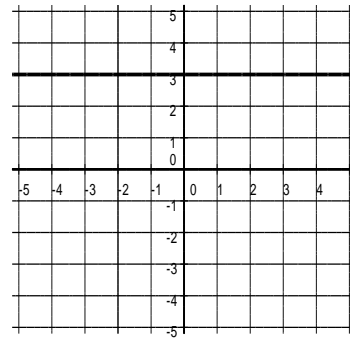
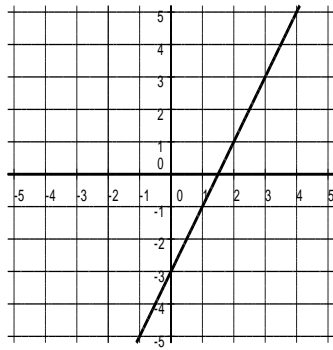
2a)  $y = 9$  2b)  $y = 0$



3a)  $y = 5$  3b)  $y = -3$

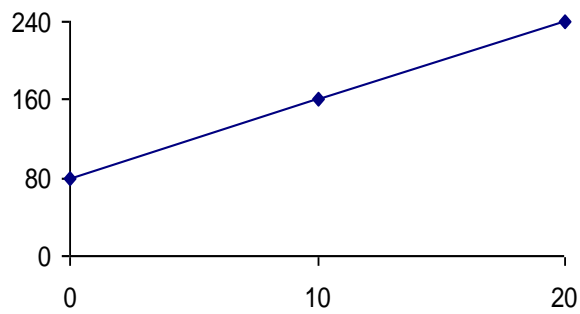
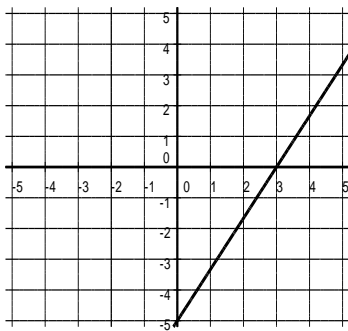
4a)

4b)



5.

6a,b)  $y = 8x + 80$ ,  $x = \# \text{ boxes}$ ,  $y = \text{earnings } (\$)$

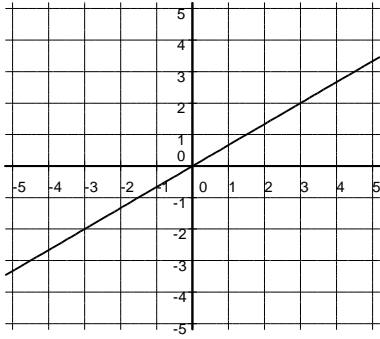


7a)  $m = 2$

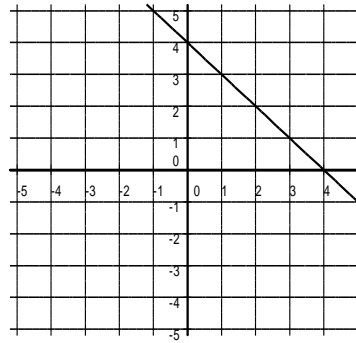
7b)  $m = \frac{2}{3}$

8.  $m = -\frac{2}{3}$

9a)  $m = \frac{2}{3}, b = 0$



9b)  $m = -1, b = 4$



10a)  $y = -\frac{1}{2}x - 2$

10b)  $x = 2$

11a)  $y = \frac{1}{5}x + 2$

11b)  $y = -2x + 5$

12.  $y = 2x + 4$

13a) \$2/sign

13b)  $C = 2n + 20$

14. Equation:  $2(2x - 3) + 2x = 90$ ,  $x = \text{width}$

Answer: The width is 16 feet and the length is 29 feet.

15. Equation:  $3x + 4(x + 2) = 64$ ,  $x = \text{width}$

Answer: The width of each rectangle is 8 feet and the length is 10 feet.