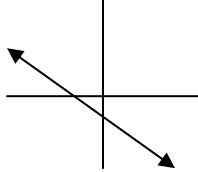


Math 1160 – Section 1.4 Answer Key

4. $m = -7/5$

6. $m = -4/5$



20. $y = (1/3)x + 4/3$ (remember the Parallel Property)

22. $y = 2x - 5$ (remember the Perpendicular Property)

32a. $y = 40(100) + 2400 \rightarrow \6400 (solve for y given x)

32b. $3600 = 40x + 2400 \rightarrow 30$ coats (solve for x given y)

32c. $(0, 2400)$ The y-intercept represents fixed costs - costs incurred which are not related to the number of coats produced.

32d. slope = 40 (The cost of making each coat is \$40.)

37a. $y = .10x + 160$

37b. $y = .10(1000) + 160$

$y = \$260$

37c. $500 = .10x + 160$

$x = \$3400$

62. The equation of the line is $y = 23250x + 580,000$

When $x = 8$ (2008), $y = 766,000$

*You were given 2 points in this problem. Utilize the slope formula and the point-slope formula to get the equation of the line.