



$$6) p(x) = -2x + 8$$

$$a) = -2$$

$$b) = p(4) = -2(4) + 8$$

$$p(4) = 0$$

$$7) p(x) = 3x - 7 \quad (+4)$$

$$p(x) = 3x - 3$$

$$8) \begin{cases} 2x + y = 5 \\ x - 3y = -11 \end{cases} \rightarrow 2x + \frac{13}{4} = 5 \rightarrow 2x + 13 = 35$$

$$2x = 22$$

$$x = 11$$

$$L: x = -4 + 3y$$

$$2(-4 + 3y) + y = 5$$

$$-8 + 6y + y = 5$$

$$7y = 13$$

$$y = \frac{13}{7}$$

$$9) a. T(x) = 50x + 3000$$

$$b. T(25) = 50(25) + 3000$$

$$T(25) = 4250$$

$$10) S(0) = 60(0) + 100$$

$$S(3) = 60(3) + 100$$

$$S(0) = 0 + 100$$

$$S(3) = 280$$

$$S(0) = 100\%$$

$$11) 2a + 3b = 240$$

$$50a + 70b = 10000$$