

pg 8
31, 33, 39, 40
43, 46, 47
↓
a, b, c, e

31) $P(0,0)$ $L: y = -x + 2$
 $m = -1$ $m = 1$
 $y - 0 = -1(x - 0)$ $y - 0 = 1(x - 0)$
 $y = -1x$ $y = x$
 $y = -x$

33) $P(-2,4)$ $L: x = 5$
 parallel perpendicular
 $x = -2$ $y = 4$

39) a) $y = 0.68x + 9.012539$

b) Slope = 0.68 represents in 0.68 months, weight increases
 C-Calculator by 1 pound.
 d) at 30 months, 29.41 lbs

40) $y = 1060.423x - 2077548.67$

b) Each year compensation goes up \approx \$1060.
 c) On Calc
 d) In 2000 the compensation should be \$43297.96

43) $2x + Ky = 3$ $x + y = 1$
 $\frac{Ky}{K} = \frac{-2x + 3}{K}$ $y = -x + 1$
 $y = -\frac{2}{K}x + 3$
 $K = 2$ $K = -2$
 parallel perpendicular

46) a) $d(t) = 45t$

b) Calc

c) slope is 45 mph

e) the car begins at $t=0$ at 30 miles past

47) a) $y = 5632x - 11080280$

b) rate that the median price of a home is increasing

c) $y = 2732x - 5362360$

d) the price is increasing more rapidly in the Northeast.