(34) $y = x - 8$ $m = 1$

$b = 3$

$y = x + 3$

(36) $y = mx + b$

$(0, -6)$

$m = -2$

$-6 = -2(0) + b$

$b = -6$

$y = -2x - 6$

(38) $m = \frac{1}{2}$ $P(\frac{3}{2}, 4)$

$y = mx + b$

$4 = \frac{1}{2}(\frac{3}{2}) + b$

$4 = \frac{3}{4} + b$

$b = 3\frac{1}{4}$

$\frac{13}{4}$

$y = \frac{1}{2}x + \frac{13}{4}$

(40) $m = \frac{3}{4}$ $(-7, -5)$

$y = \frac{3}{4}x + \frac{1}{4}$

$-5 = \frac{3}{4}(-7) + b$

$-5 = -\frac{21}{4} + b$

$-\frac{20}{4} + \frac{21}{4} = b$

$b = \frac{1}{4}$

(42) $y = -x - 5$ $\quad m = -1$

$(-3, 6)$

$y - y_1 = m(x - x_1)$

$y - 6 = -1(x - (-3))$

$x + 3$

$y - 6 = -x - 3$

$\boxed{y = -x + 3}$

(44) $y = 3$

horizontal

$m = 0$

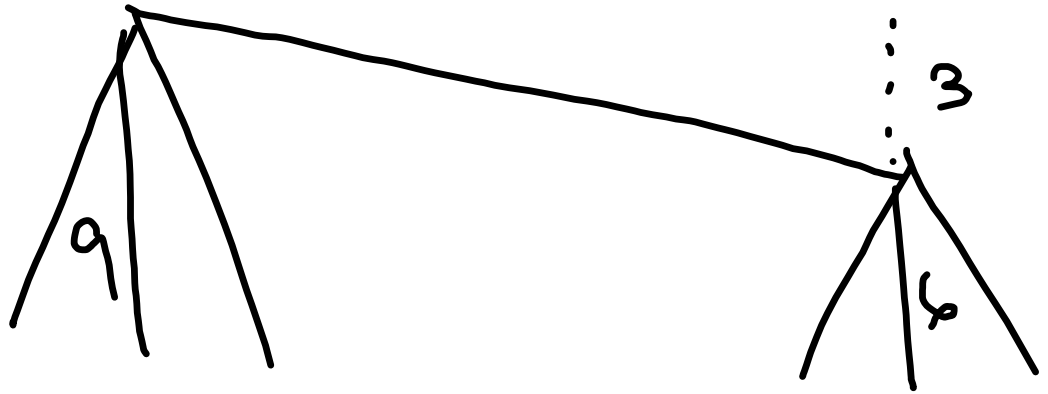
$(8, 7)$

$y - 7 = 0(x - 8)$

$y - 7 = 0$

$\boxed{y = 7}$

(46) $\frac{-3}{20}$



$\frac{9}{20}$

57

$y = -2x + \frac{3}{2}$

$m = -2$

$(4, K)$ $(-2, -1)$

$$-\frac{2}{1} = \frac{-1-K}{-2-4}$$

$$\frac{-2}{1} = \frac{-1-K}{-6}$$

$$12 = -1-K$$

$$13 = -K$$

$$K = -13$$

(58) $m = -\frac{1}{4}$ $(K, -10)$ $(5, -6)$

$$-\frac{1}{4} = \frac{-10-(-6)}{K-5}$$

$$-\frac{1}{4} \not\equiv \frac{-4}{K-5}$$

$$-K+5 = -16$$

$$-K = -21$$

$$K = 21$$