1. If 2x - 3 = 8, what is the value of 6x + 1?

$$6x = 33$$

2. Find the ordered pair (x, y) that satisfies the system of equations below.

$$x - y = 4$$

$$x - y = 4$$
 \rightarrow 3 - $y = 4$

 $\chi = 3$

Xz $\$ X, $\$ Y. 3. Line l has slope of 1/3. If it passes (0, -2) and (k, 0), find k.

$$m = \frac{4z - 41}{Xz - X_1} \qquad \frac{-z - 0}{0 - K} = \frac{1}{3}$$

$$\frac{-z}{-K} = \frac{1}{3} = \frac{z}{K} \quad K = 0$$

4. Given:
$$A = \frac{B}{3-B}$$
. Solve for B .

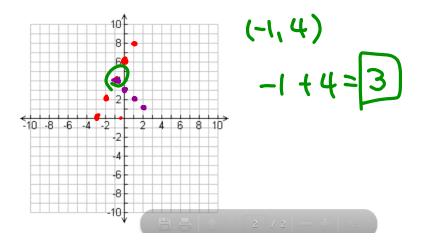
$$AB+B=3A$$

$$B(A+1)=3A$$

$$B=-$$

$$\frac{B(A+1)=3A}{A+1}B=\frac{3A}{A+1}$$

5. The graph of a line in the xy-plane has slope 2 and contains the point (1, 8). The graph of a second line passes through the points (1, 2) and (2, 1). If the two lines intersect at the point (a, b), what is the value of a + b?



6. What is the sum and product of the roots for $2x^2 - 8x = 5$?

$$ax^{2}+bx+c=0$$

$$sum = -\frac{b}{a} \qquad prod = \frac{c}{a}$$

$$2x^{2}-8x-5=0$$

$$s = \frac{-(-8)}{2} = 4 \qquad p = \frac{-\frac{5}{2}}{2}$$

7. Express the given expressions with quotient and remainder.

$$\frac{3x+0}{x-2}$$

