For the following two equations, write FULL SENTENCES explaining each step of your solution. Explain what you are doing and why you are doing it.

For example;

$$2x + 5 = -9$$

$$2x + 5 - 5 = -9 - 5$$

I am subtracting five from both sides of the equation so I can isolate the "2x" term.

Solve the following equations and include a FULL SENTENCE describing each step you took and why.

1. 
$$4x + 8 = -16$$

2. 
$$2(x+3)=12$$

3. Solve each equation. (6 marks)

(a) 
$$-\frac{1}{2}(x-4) = 1$$

$$\frac{(a-9)}{3} - \frac{(2a-1)}{4} = \frac{7}{6}$$

4. Solve for the stated unknown (4 marks)

(a) 
$$v = \frac{d}{t}$$
 solve for "d"

(b) 
$$R = P(5 + i)$$
 solve for "i"

5. Solve the following equations for "y" and then state the **SLOPE**, and **y-intercept**. (6 marks)

(a) 
$$2x + y = 7$$

$$3x + 4y - 12 = 0$$