Today we will use equations to determine specific x-values and y-values on a line.

1. If (4, y) is a solution to the equation $y = -x + 3$, determine the value of y?

2. If (x, 10) is a solution to the equation $y = 3x - 2$, determine the value of x?

3. If (x, -4) is a solution to the equation $y = -\frac{1}{4}x + 3$, determine the value of x?

4. If (x, -4) is a solution to the equation $4x - 5y = 8$, determine the value of x?
5. Determine the range of the function \( f(x) = 3x - 5 \) when the domain is \{-4, 2, 9\}? 

6. Determine the range of the function \( f(x) = x^2 - 8 \) when the domain is \{-4, -3, -1\}? 

7. Determine the domain of the function \( f(x) = 2x + 1 \) when the range is \{-3, 9, 15\}? 

8. Determine the domain of the function \( f(x) = 4x + 9 \) when the range is \{5, 21, 33\}? 