Foundations of Math 9

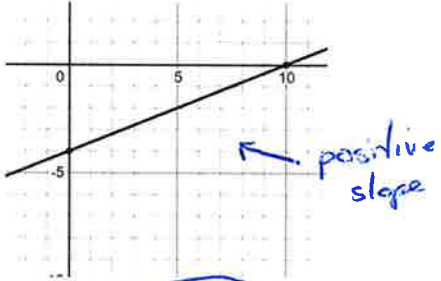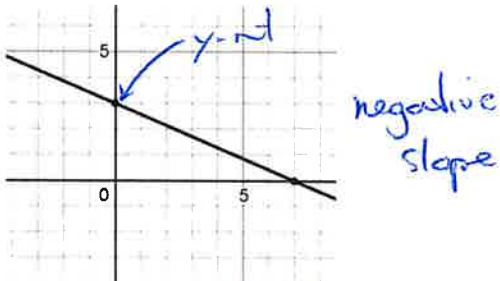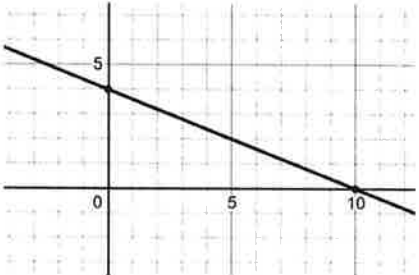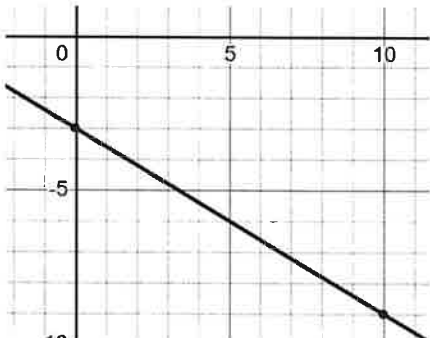## Proficiency Check 7.1 and 7.2 – Matching Graphs and Equations

Perform the following operations and write the answer in Descending Order.

Emerging — Slope is positive

1. Which Graph Represents the following equation: $y = \frac{2}{3}x + 7$ ← y-int

Emerging — slope negative

2. Which Graph Represents the following equation: $y = -\frac{5}{7}x - 2$ ← y-int

Proficient

3. Which Graph Represents the following equation: $2x - 3y = 6$

x-int: $(3, 0)$
y-int: $(0, -2)$

Emerging	Emerging
4. Which equation is representing the graph below?	5. Which equation is representing the graph below?

positive slope

$$y = \frac{2}{5}x - 4$$ ← y-int

$$y = \frac{2}{5}x + 4$$

$$y = -\frac{2}{5}x - 4$$ ← y-int

y-int

negative slope

$$y = -\frac{3}{7}x + 3$$

$$y = \frac{3}{7}x + 3$$

$$y = -\frac{3}{7}x - 3$$

Proficient	Proficient
6. Which equation is representing the graph below?	7. Which equation is representing the graph below?

only → $2x + 5y = 20$

$2x - 5y = 20$

$2x + 5y = -20$

when x is 0 y = 4

only

$3x - 5y = -15$

$3x + 5y = 15$

$3x + 5y = -15$

when x is 0 y is -3