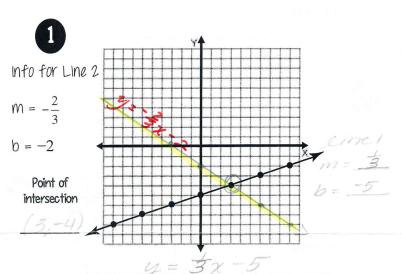
Activity: All Tangled Up!

Objective: Students will be able to:

- ✓ Write an equation of a line given a graph
- ✓ Graph an equation of a line
- \checkmark Find a solution to a system of equations

Directions:

- 1. Find the equation of the line in each graph. Give the corresponding equation in the box.
- 2. Use the given slope and y-intercept to write the equation of the new line then graph it.
- 3. State the point of intersection of the system of equations.



2

Info for Line 2

$$M = -1$$

Point of intersection

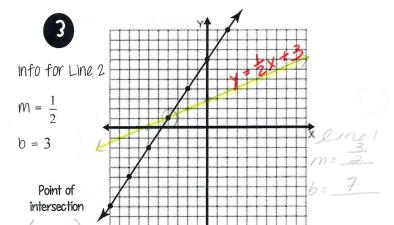


Equation:

$$x - 3y = 15$$

Equation:

$$5x + 2y = 2$$

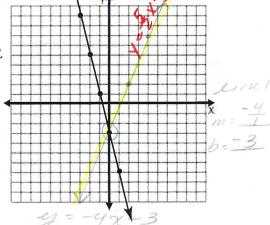


Info for Line 2

$$M = \frac{5}{2}$$

$$b = -3$$

Point of intersection

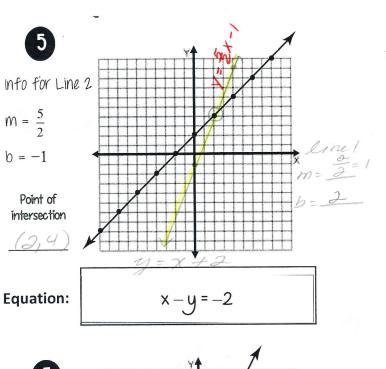


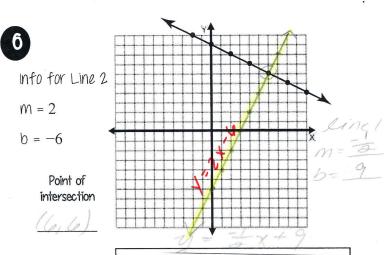
Equation:

$$3x - 2y = -14$$

Equation:

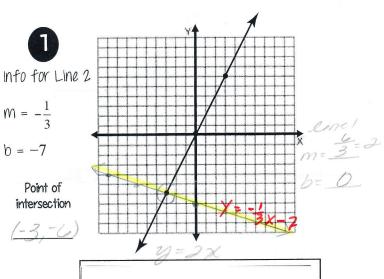
$$4x + y = -3$$

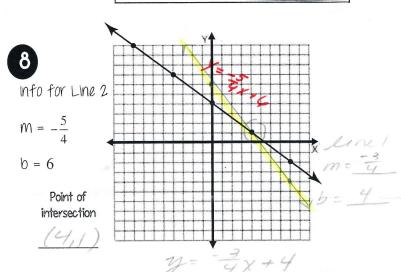




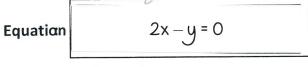
Equation:

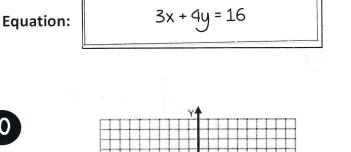
 $M = \frac{2}{7}$

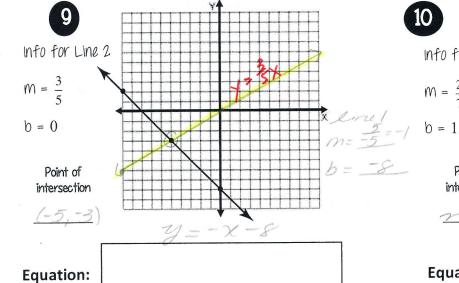


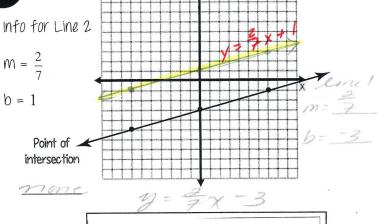


x + 2y = 18









2x - 7y = 21**Equation:**