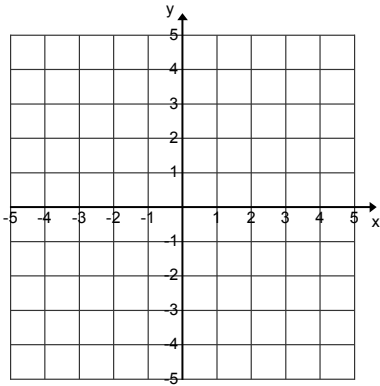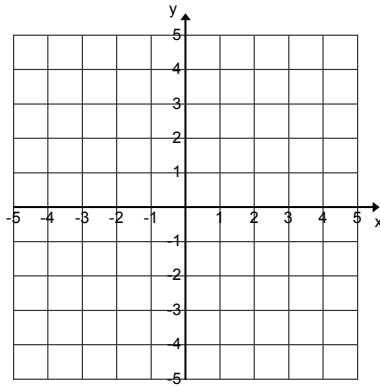# X and Y INTERCEPTS Worksheet (Day 2)

1. If the x-intercept of a line is positive and the y-intercept is negative, does the line slant upward or downward from left to right? Explain your reasoning.

2. A student says that the x-intercept of the graph $x + 2y = 5$ is the point $(0, 5)$. Why is the student incorrect?

3.   At which point does the graph of the equation **2x + y = 4** cross the x-axis?

4. What is the y-intercept of the graph of the equation **3x + y = 6**?
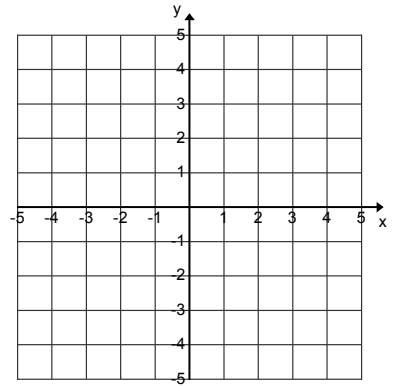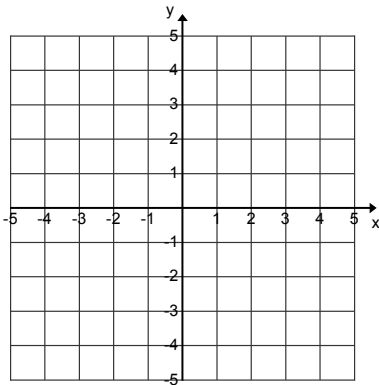
Graph some of last night's homework problems below:
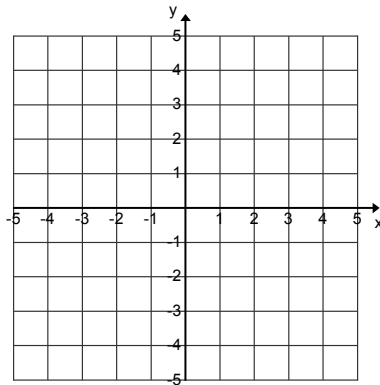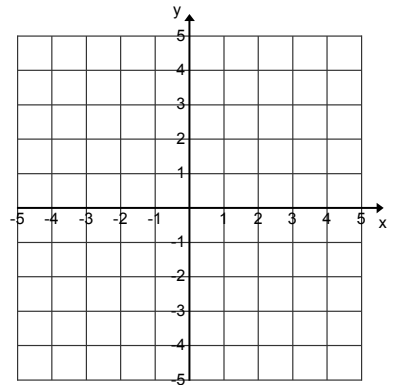
1. $4x + y = 5$

2. $x - y = 1$
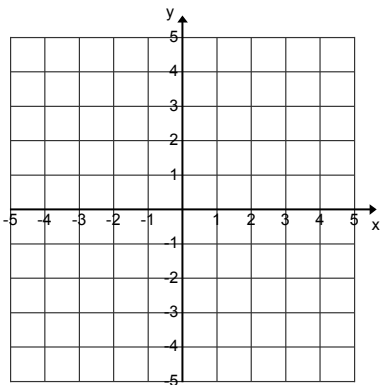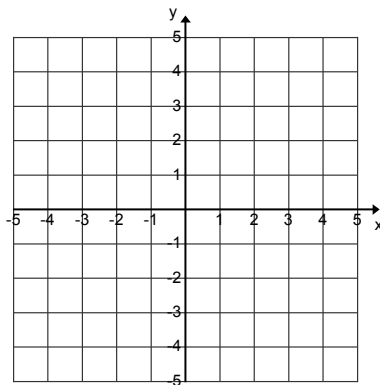
3. $x + 4y = 8$

4. $5x + y = 2$

5. $7x + 3y = -21$

6. $3x + 6y = 18$

10. $x - 9y = -45$

11. $2x - 6y = 18$

12. $7x + 5y = 42$