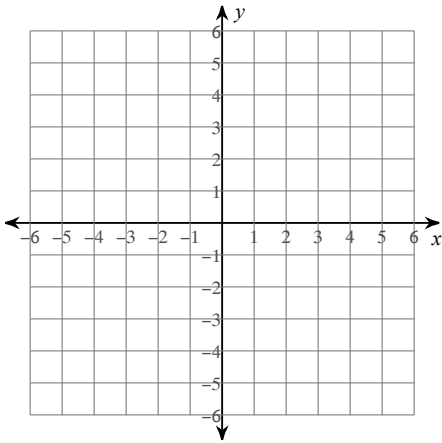


Assignment #1

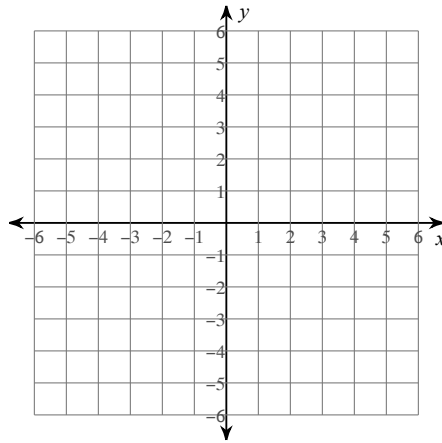
Date _____ Period _____

Sketch the graph of each line.

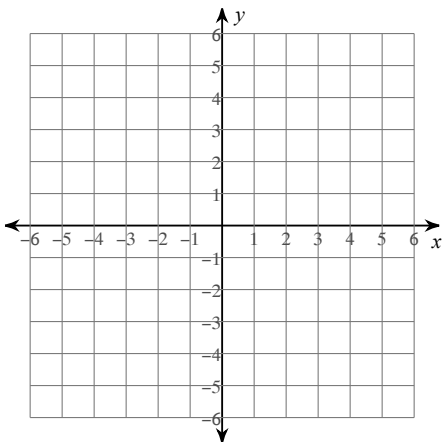
1) $3x - y = -2$



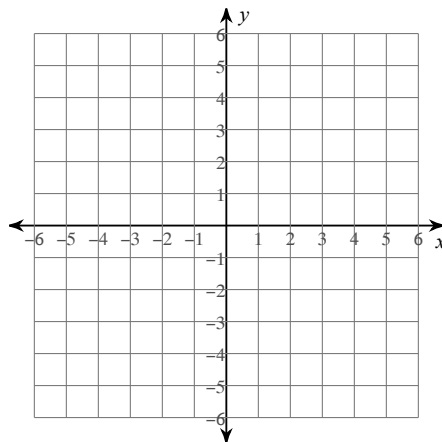
2) $3x - 2y = 0$



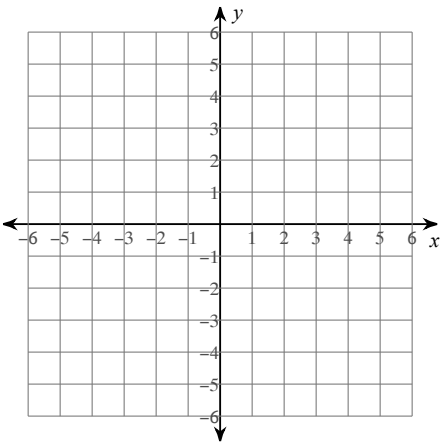
3) $7x - y = 4$



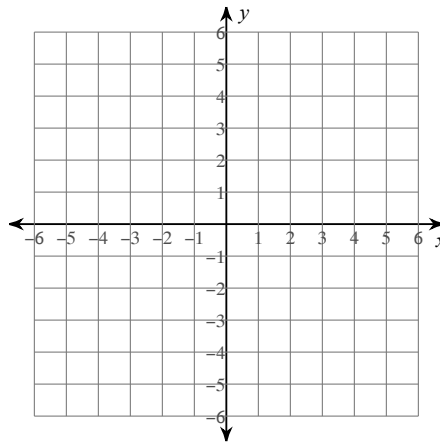
4) $x - y = -3$



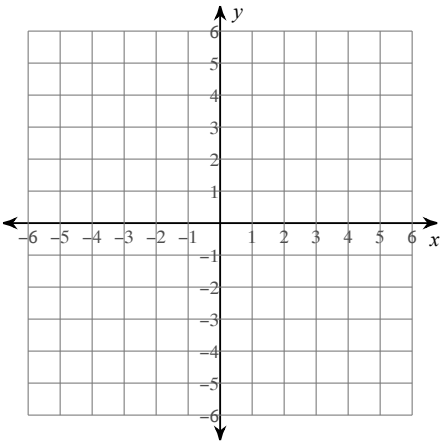
5) $x - 4y = 8$



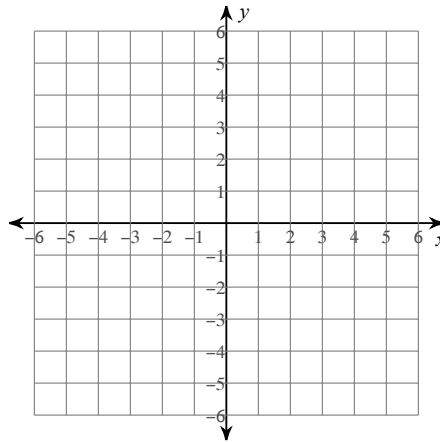
6) $x + y = -5$



7) $x + 2y = 4$

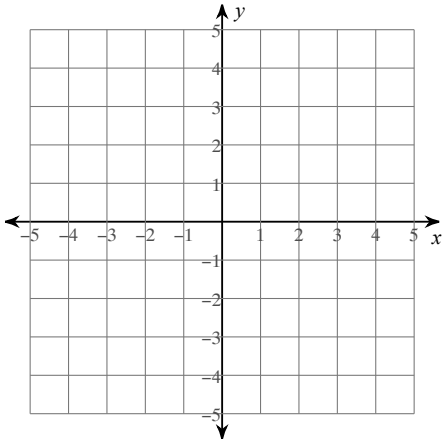


8) $x + y = 4$

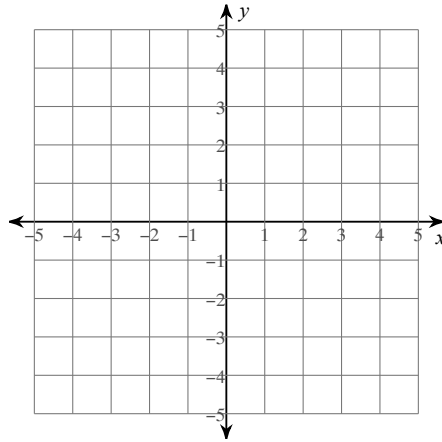


Solve each system by graphing.

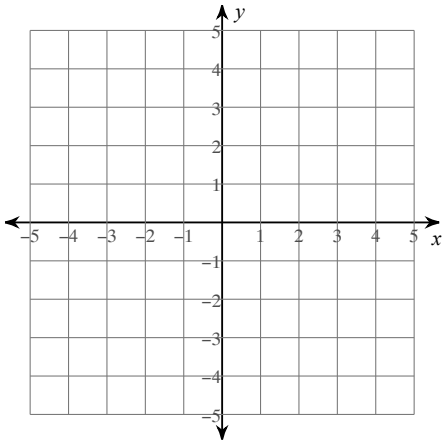
9) $y = 8x + 4$
 $y = 8x - 3$



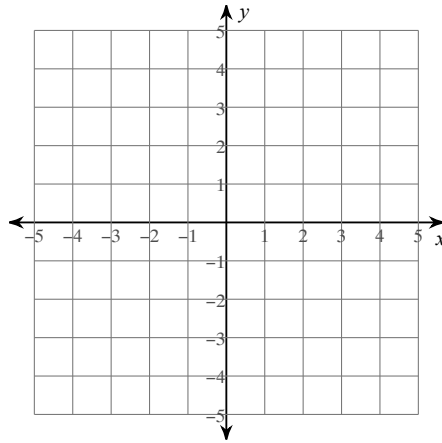
10) $y = -3x - 4$
 $y = 3x + 2$



11) $y = -\frac{7}{4}x - 4$
 $y = -\frac{1}{2}x + 1$

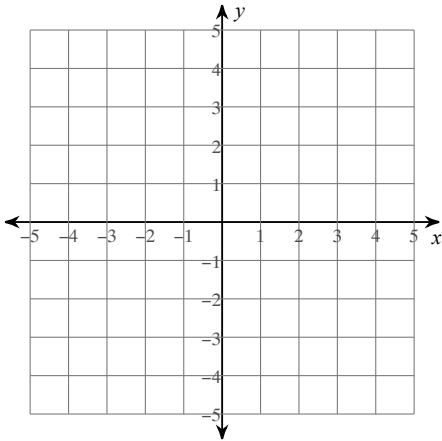


12) $y = \frac{1}{2}x + 3$
 $y = \frac{7}{2}x - 3$



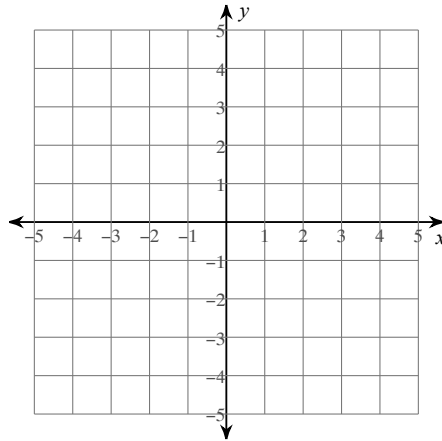
$$13) y = -\frac{5}{3}x - 3$$

$$y = \frac{2}{3}x + 4$$



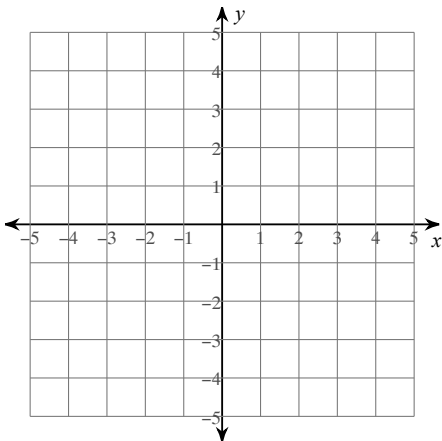
$$14) y = \frac{5}{4}x - 1$$

$$y = \frac{1}{4}x + 3$$



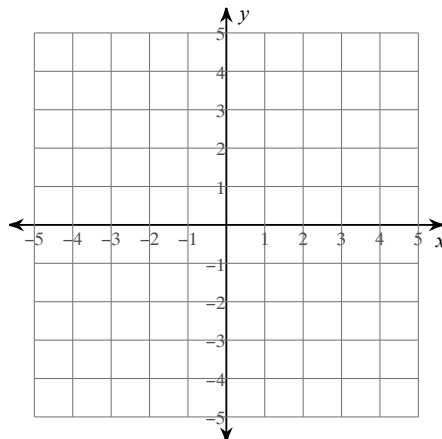
$$15) y = 2x + 4$$

$$y = -3x - 1$$



$$16) y = -\frac{3}{2}x + 2$$

$$y = -\frac{1}{2}x - 2$$



- 17) A cruise ship left Diego Garcia and traveled toward dry dock. A submarine left three hours later traveling at 30 mph in an effort to catch up to the cruise ship. After traveling for seven hours the submarine finally caught up. Find the cruise ship's average speed.
- 18) A diesel train left Berlin and traveled toward Johannesburg. A freight train left three hours later traveling at 20 km/h in an effort to catch up to the diesel train. After traveling for nine hours the freight train finally caught up. Find the diesel train's average speed.
- 19) Amanda left the hospital and drove toward the recycling plant. One hour later Carlos left driving at 36 km/h in an effort to catch up to Amanda. After driving for five hours Carlos finally caught up. Find Amanda's average speed.
- 20) Kathryn left school and traveled west at an average speed of 50 mph. Sometime later Eduardo left traveling in the same direction but at an average speed of 75 mph. After traveling for two hours Eduardo caught up with Kathryn. Find the number of hours Kathryn traveled before Eduardo caught up.