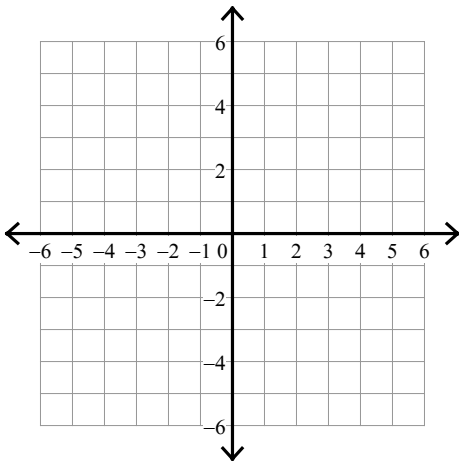


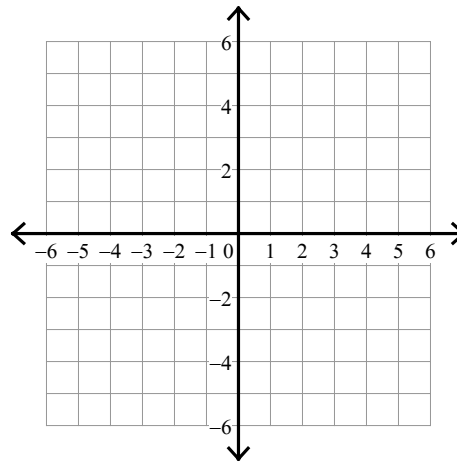
## Review for Final Exam I

**Graph each equation.**

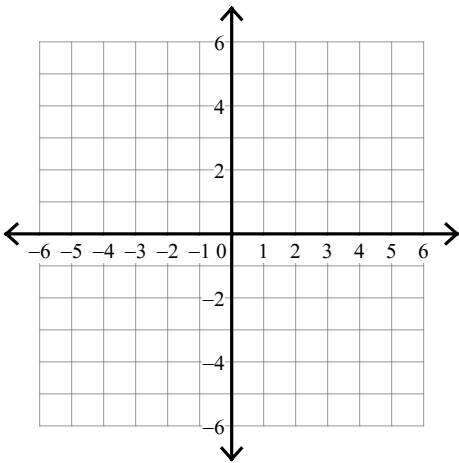
1)  $y = |x| + 3$



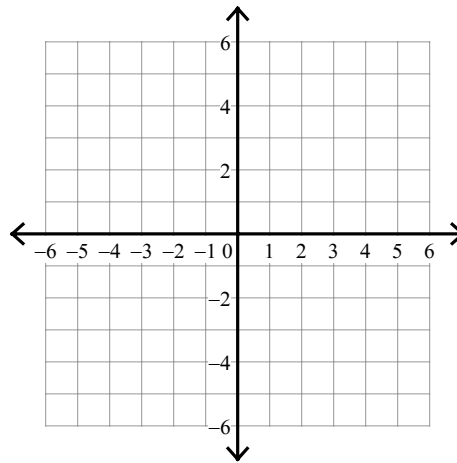
2)  $y = |x| - 1$



3)  $y = -|x - 2| - 2$



4)  $y = -|x - 1| - 1$



**Simplify each expression.**

5)  $-5(-7n + 9) - 4(8n - 9)$

6)  $3(1 + 6n) + 10(8 - 9n)$

7)  $-7(6v - 3) + 3(8 - 8v)$

8)  $-5(1 - 4k) + 6(1 - 2k)$

9)  $2(r - 4) + 7(1 - 8r)$

10)  $-2(2 + x) - 8(1 - 5x)$

**Solve each equation.**

11)  $2 = 2(r - 4)$

12)  $14 = 2 - 3(x + 3)$

13)  $12 = -4(x - 3)$

14)  $-8(8 - 6x) = 80$

15)  $-77 = -7(7 - n)$

16)  $-30 = 6(5a + 5)$

**Simplify. Your answer should contain only positive exponents.**

$$17) \frac{x^3 y^3 \cdot x}{(-2x)^2}$$

$$18) \frac{y^4}{-xy(xy^2)^3}$$

$$19) \frac{(2x^2 y^2)^2}{x \cdot -2x^2 y^4 \cdot (x^2)^3}$$

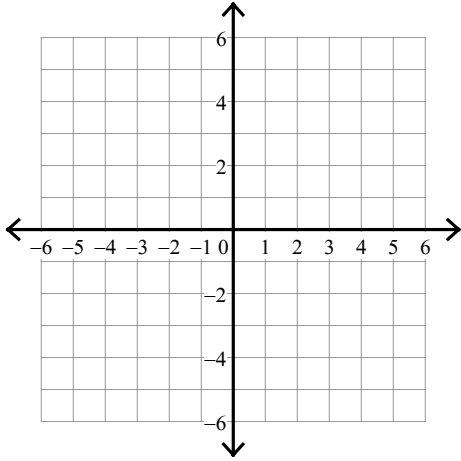
$$20) \frac{b^4}{(2a^4 b^3)^2 \cdot a^3 b^3}$$

$$21) \frac{x^2 y^0}{2x^2 y^2 \cdot (x^{-4} y^{-4})^4}$$

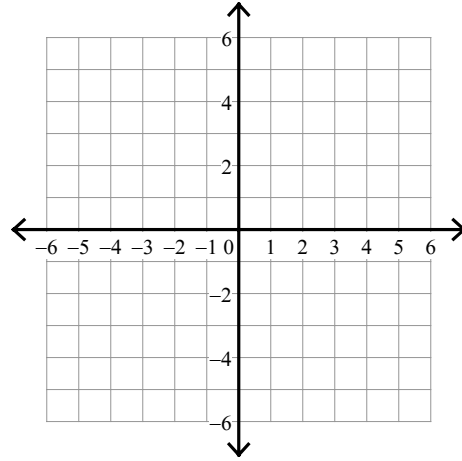
$$22) \frac{(2x^{-1})^{-2}}{2x^{-3} y^0 \cdot yx^4}$$

Use "thumb cover-up" or convert to slope-intercept form and sketch the graph of each line.

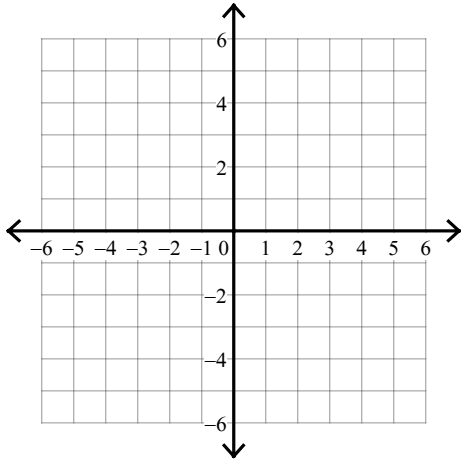
23)  $2x + y = -5$



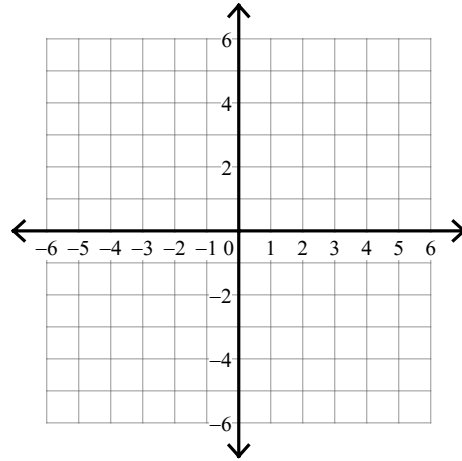
24)  $x - 3y = 12$



25)  $8x - 5y = 25$

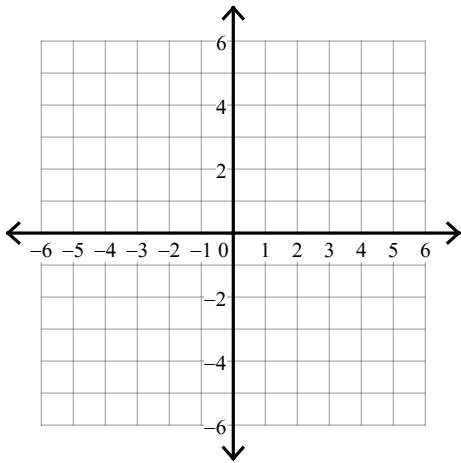


26)  $x - y = 4$

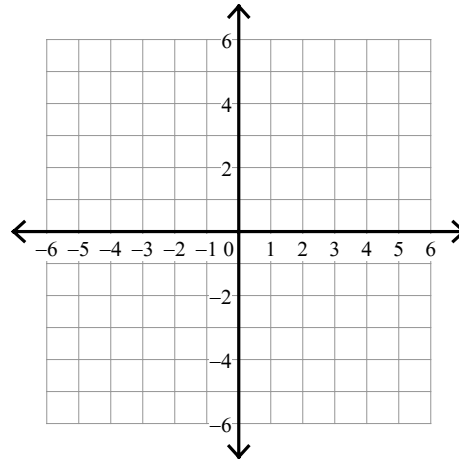


Sketch the graph of each line.

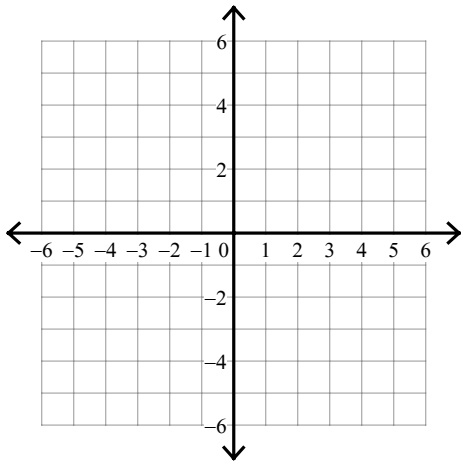
27)  $y = -\frac{1}{4}x - 4$



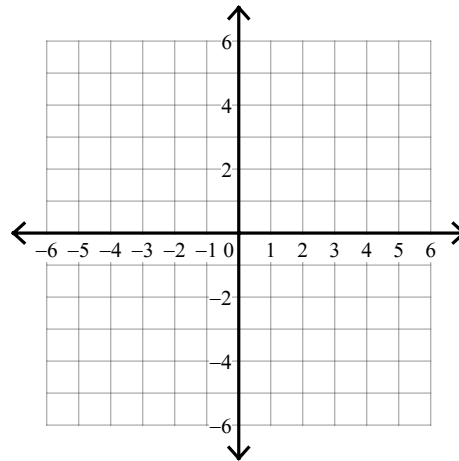
28)  $y = 6x + 5$



29)  $y = \frac{5}{4}x - 3$

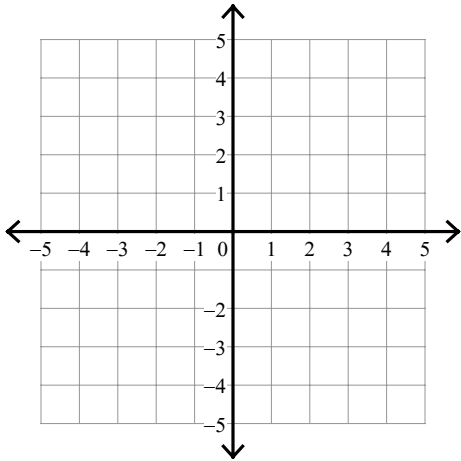


30)  $y = \frac{2}{3}x + 1$

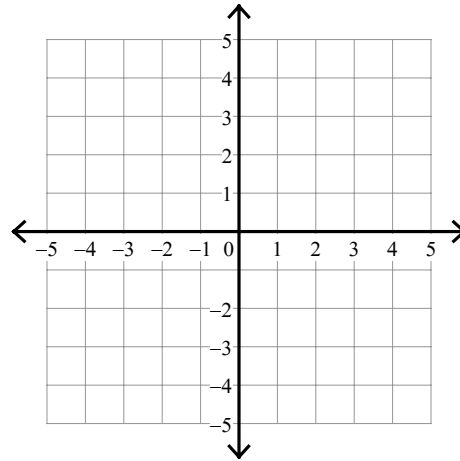


Solve each system by elimination or substitution. Then graph your solution.

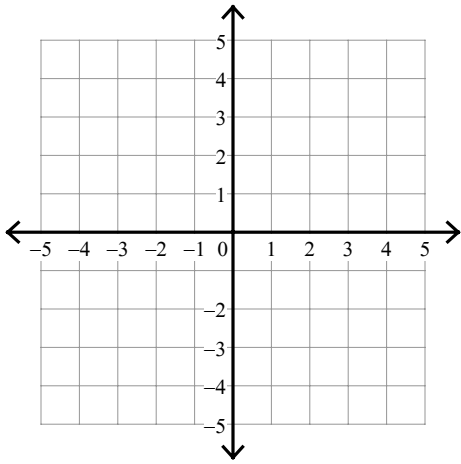
31)  $x + y = -4$   
 $3x - y = -4$



32)  $x + y = -2$   
 $x - 2y = -8$



33)  $y = 2x - 4$   
 $y = 2x - 2$



34)  $y = -x + 1$   
 $y = \frac{3}{2}x - 4$

