

Simplify each expression.

1. $7a + 3b - 4a - 5b$

2. $3x + 5y + 7x - 3y$

3. $3(15x - 9y) + 5(4y - x)$

4. $2(10m - 7a) + 3(8a - 3m)$

5. $\frac{1}{4}(6 + 20y) - \frac{1}{2}(19 - 8y)$

6. $7(0.2p + 0.3q) + 5(0.6p - q)$

Solve each equation.

7. $2p + 15 = 29$

8. $x + 9x - 6x + 4x = 20$

9. $\frac{1}{9} - \frac{2}{3}b = \frac{1}{18}$

10. $\frac{5}{8} + \frac{3}{4}x = \frac{1}{16}$

$$11. -7(p + 8) = 21$$

$$12. 3f - 2 = 4f + 5$$

$$13. 3d + 7 = 6d + 5$$

$$14. 3(2z + 25) - 2(z - 1) = 78$$

$$15. 4(k + 3) + 2 = 4.5(k + 1)$$

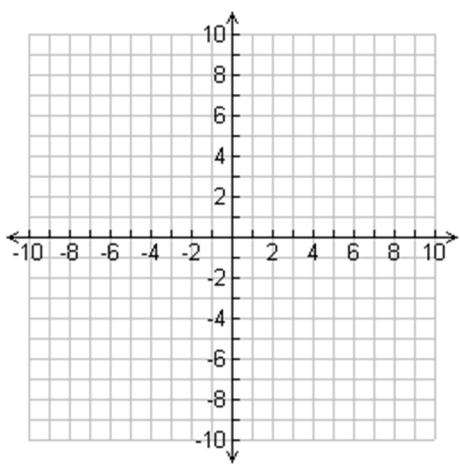
$$16. 53 = 3(y - 2) - 2(3y - 1)$$

$$17. 5(x - 3) + 2 = 3(x + 2) + 2x$$

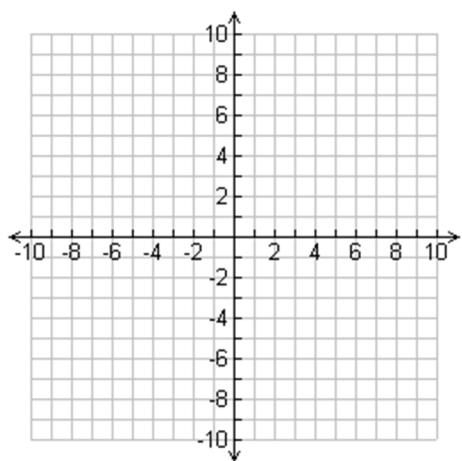
$$18. 2x + 1 = 3(x - 1) - x + 4$$

Graph each of the following linear functions.

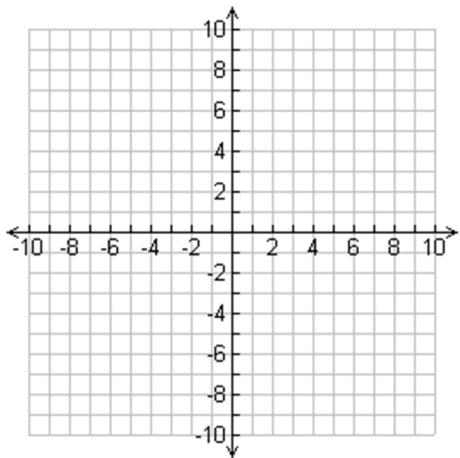
19. $y = 2x - 5$



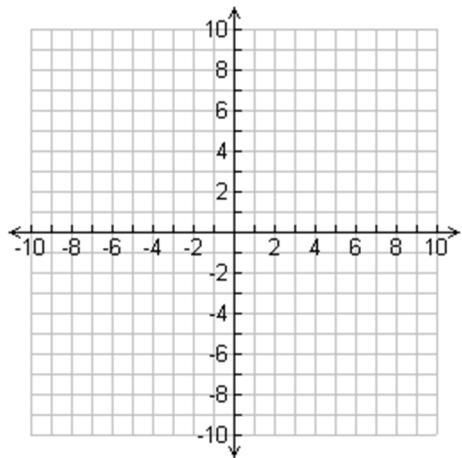
20. $y = -\frac{1}{3}x + 2$



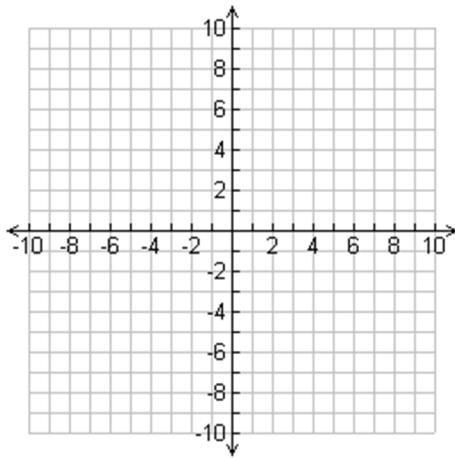
21. $2y - 6x = 10$



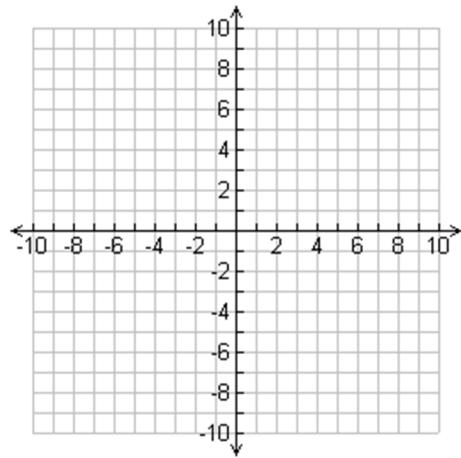
22. $4y + x = 20$



23. $y = 4$

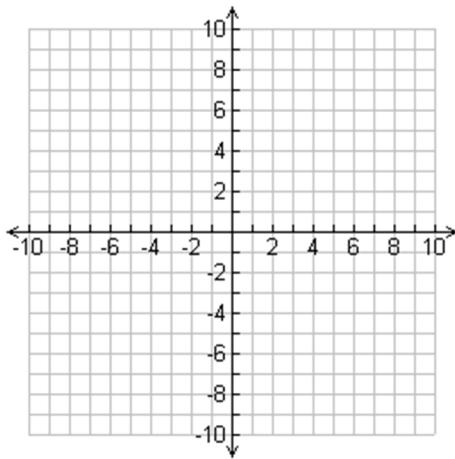


24. $x = 4$

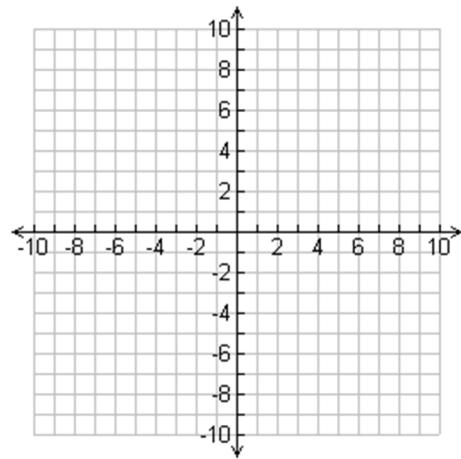


Graph each linear function by finding the x and y intercepts.

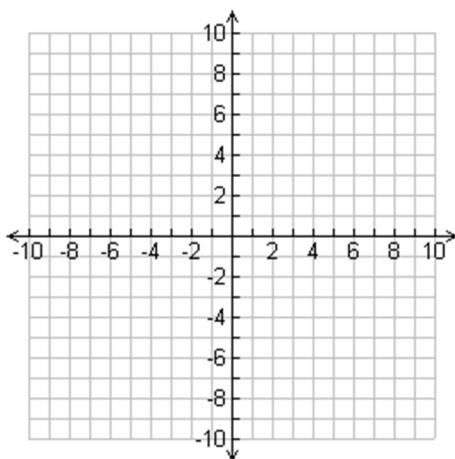
25. $2x + 3y = 12$



26. $-4x + y = 8$



27. $-2y = 5x + 10$



28. $\frac{2}{3}y - x = 6$

