

Practice: Solve Multi-Step Equations

1. Solve.

- a) $6x + 3 + 2x = 19$
- b) $10m - 3m + 8 = 43$
- c) $4a + a + 9 = 44$
- d) $15 - 3b + b = 3$
- e) $2y + 4 + 3y = 9$
- f) $7f - 12 + f = 20$
- g) $9q + 2 - 8q - 13 = 0$
- h) $8 - 3k + 5k = 0$

2. Find each root.

- a) $3b + 4 = 2b + 6$
- b) $7p - 18 = 3p - 2$
- c) $2x + 4 = 5x - 5$
- d) $8g + 3 = g + 10$
- e) $6h - 5 = 2h + 3$
- f) $4m - 9 = m + 7$
- g) $5r - 6 = 2r + 3$
- h) $-3y + 15 = y - 13$

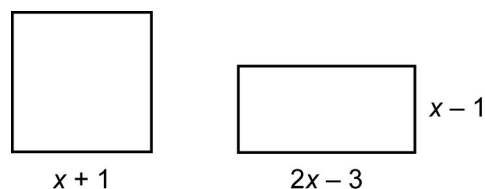
3. Solve.

- a) $4(x - 3) = 3x - 7$
- b) $2(a - 8) + 3(a + 6) = 17$
- c) $3(2p + 1) = 5(p + 1)$
- d) $5d = 4(d + 2)$
- e) $2(3t + 5) - 4(2t - 1) = 6$
- f) $5(k + 3) = 2(4k + 7) - 5$

4. Solve, then check.

- a) $2m + 1 - m = 4$
- b) $q + 4 + 2q - 19 = 0$
- c) $g - 3 + 4g = 2g - 6$
- d) $2(2b + 7) = 3(b + 3) + 3$

5. A square and a rectangle have the same perimeter. Find the side lengths of each figure.



6. In a triangle, the measure of the middle angle is triple the measure of the smallest angle, and the measure of the largest angle is 55° greater than the measure of the smallest angle. Find the measures of the angles.