

(Sect 1-0) Evaluate if $x = -2$, $y = 3$, and $z = -5$. Show all steps.

1) $5x - y - z$

2) $-4(y - x)$

3) $4x - 2yz$

4) $y^2 - 5z + x$

(Sect 1-0) Simplify each expression.

5) $4x - 6 + 2x - 5$

6) $2x + 6x^2 - 5x - 7x^2 + 10$

7) $2(3x^2 - 4x + 2)$

8) $-(3x + 1) - 2x(4x + 3)$

9) $(x^2 - 3x - 5) - (7x^2 - 5x + 2)$

10) $-y(3y - 4)$

(Sect 1-0) Solve each equation. Justify your steps with the appropriate property of equality.

11) $16 - 2x = -4$

12) $\frac{2}{3}x + 4 = 18$

13) $5x + 6 = 4(2x - 3)$

14) $x + 4 - (3x + 1) = -9$

15) $7x + 3 = 4x - 12$

16) $\frac{3}{4}(4x + 12) = 4(x + 4)$

17) $\frac{5}{x+1} = \frac{6}{2x-6}$