

Evaluating One Variable



Simplify each algebraic expression.

1) $x = 4, 7x + 3 =$

2) $x = 7, 2\left(\frac{21}{x} + 3\right) =$

3) $x = -20, \frac{40}{x} + 3 =$

4) $x = 14, 3\left(\frac{56}{x} + 7\right) =$

5) $x = -4, \frac{8}{x} + 2 =$

6) $x = 9, 2x + 7 =$

7) $x = 13, 4\left(\frac{26}{x} - 2\right) =$

8) $x = 12, \frac{48}{x} + 6 =$

9) $x = 2, 2\left(\frac{8}{x} + 3\right) =$

10) $x = -13, \frac{52}{x} + 5 =$

11) $x = 7, 7x - 4 =$

12) $x = -21, 4x + 4 =$

13) $x = 20, 3\left(\frac{60}{x} - 2\right) =$

14) $x = 8, 4\left(\frac{24}{x} + 2\right) =$

15) $x = -3, \frac{12}{x} + 8 =$

16) $x = 6, 2\left(\frac{12}{x} - 6\right) =$

17) $x = 18, \frac{72}{x} + 4 =$

18) $x = 11, x - 5 =$

19) $x = 2, 4x + 8 =$

20) $x = -9, \frac{27}{x} + 6 =$

21) $x = 21, 3\left(\frac{84}{x} - 2\right) =$

22) $x = 16, 3x + 2 =$

Answers of Evaluating One Variable



Simplify each algebraic expression.

1) $x = 4, 7x + 3 = 31$

2) $x = 7, 2\left(\frac{21}{x} + 3\right) = 12$

3) $x = -20, \frac{40}{x} + 3 = 1$

4) $x = 14, 3\left(\frac{56}{x} + 7\right) = 33$

5) $x = -4, \frac{8}{x} + 2 = 0$

6) $x = 9, 2x + 7 = 25$

7) $x = 13, 4\left(\frac{26}{x} - 2\right) = 0$

8) $x = 12, \frac{48}{x} + 6 = 10$

9) $x = 2, 2\left(\frac{8}{x} + 3\right) = 14$

10) $x = -13, \frac{52}{x} + 5 = 1$

11) $x = 7, 7x - 4 = 45$

12) $x = -21, 4x + 4 = -80$

13) $x = 20, 3\left(\frac{60}{x} - 2\right) = 3$

14) $x = 8, 4\left(\frac{24}{x} + 2\right) = 20$

15) $x = -3, \frac{12}{x} + 8 = 4$

16) $x = 6, 2\left(\frac{12}{x} - 6\right) = -8$

17) $x = 18, \frac{72}{x} + 4 = 8$

18) $x = 11, x - 5 = 6$

19) $x = 2, 4x + 8 = 16$

20) $x = -9, \frac{27}{x} + 6 = 3$

21) $x = 21, 3\left(\frac{84}{x} - 2\right) = 6$

22) $x = 16, 3x + 2 = 50$