Evaluating One Variable

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Simplify each algebraic expression.

1) $x = 3,\ \frac{9}{x} + 3 =$

2) $x = 9,\ 4(\frac{36}{x} - 4) =$

3) $x = -21,\ \frac{63}{x} + 5 =$

4) $x = 14,\ 6x - 2 =$

5) $x = 2,\ 7x - 5 =$

6) $x = -15,\ 5x + 2 =$

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

8) $x = 4,\ 3(\frac{16}{x} - 3) =$

9) $x = -21,\ 4x + 4 =$

10) $x = 6,\ 2(\frac{12}{x} - 6) =$

11) $x = 11,\ 4(\frac{22}{x} + 2) =$

12) $x = 13,\ \frac{26}{x} + 6 =$

13) $x = 16,\ 2(\frac{48}{x} + 8) =$

14) $x = 19,\ 3(\frac{57}{x} + 3) =$

15) $x = 2,\ 2(\frac{8}{x} + 3) =$

16) $x = 7,\ 2(\frac{14}{x} - 8) =$

17) $x = 5,\ 2x - 7 =$

18) $x = 5,\ 2(\frac{20}{x} + 2) =$

19) $x = 21,\ x - 3 =$

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

21) $x = 11,\ x - 5 =$

22) $x = 11,\ 7x - 7 =$

23) $x = 21,\ 8x - 8 =$

24) $x = -10,\ 2x + 8 =$

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

26) $x = 19,\ 3(\frac{57}{x} - 7) =$

27) $x = 20,\ 3(\frac{60}{x} - 2) =$

28) $x = 6,\ 8x + 5 =$

29) $x = 8,\ x - 2 =$

30) $x = 13,\ 5x - 8 =$

Answers of Evaluating One Variable

Simplify each algebraic expression.

1) $x = 3,\ \frac{9}{x} + 3 = 6$

2) $x = 9,\ 4(\frac{36}{x} - 4) = 0$

3) $x = -21,\ \frac{63}{x} + 5 = 2$

4) $x = 14,\ 6x - 2 = 82$

5) $x = 2,\ 7x - 5 = 9$

6) $x = -15,\ 5x + 2 = -73$

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

8) $x = 4,\ 3(\frac{16}{x} - 3) = 3$

9) $x = -21,\ 4x + 4 = -80$

10) $x = 6,\ 2(\frac{12}{x} - 6) = -8$

11) $x = 11,\ 4(\frac{22}{x} + 2) = 16$

12) $x = 13,\ \frac{26}{x} + 6 = 8$

13) $x = 16,\ 2(\frac{48}{x} + 8) = 22$

14) $x = 19,\ 3(\frac{57}{x} + 3) = 18$

15) $x = 2,\ 2(\frac{8}{x} + 3) = 14$

16) $x = 7,\ 2(\frac{14}{x} - 8) = -12$

17) $x = 5,\ 2x - 7 = 3$

18) $x = 5,\ 2(\frac{20}{x} + 2) = 12$

19) $x = 21,\ x - 3 = 18$

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

21) $x = 11,\ x - 5 = 6$

22) $x = 11,\ 7x - 7 = 70$

23) $x = 21,\ 8x - 8 = 160$

24) $x = -10,\ 2x + 8 = -12$

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

26) $x = 19,\ 3(\frac{57}{x} - 7) = -12$

27) $x = 20,\ 3(\frac{60}{x} - 2) = 3$

28) $x = 6,\ 8x + 5 = 53$

29) $x = 8,\ x - 2 = 6$

30) $x = 13,\ 5x - 8 = 57$