

Name: _____

Date: _____ Score: _____

Solving Algebraic Expressions

Evaluate the following expressions for $x = 4$

1) $x + 8 =$ _____ 2) $2x - 1 =$ _____ 3) $10 + x^2 =$ _____

4) $-x - 12 =$ _____ 5) $-4 + x^2 =$ _____ 6) $x^2 - 1 =$ _____

Evaluate the following expressions for $y = -2$

1) $3y - 3 =$ _____ 2) $-2y - 16 =$ _____ 3) $16 + y^2 =$ _____

4) $-2y + 20 =$ _____ 5) $y^2 + 12 =$ _____ 6) $-y^2 - 20 =$ _____

Evaluate the following expressions for $t = -5$

1) $t^2 + 75 =$ _____ 2) $-t - 25 =$ _____ 3) $-t + 10 =$ _____

4) $22 - 2t =$ _____ 5) $-4t - 5 =$ _____ 6) $-t - 10 =$ _____

Evaluate the following expressions for $q = -1$

1) $12 + q^2 =$ _____ 2) $-q^2 - q =$ _____ 3) $q + 2q =$ _____

8) $-2q - 30 =$ _____ 5) $-q - 2q =$ _____ 6) $3q^2 - 3 =$ _____

Evaluate the following expressions for $s = -3$

1) $s^2 =$ _____ 2) $2s - 1 =$ _____ 3) $s + s^3 =$ _____

4) $s + (-1) =$ _____ 5) $-s + 27 =$ _____ 6) $s^2 - 1 =$ _____

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Answers

1) $x + 8 = \underline{12}$

2) $2x - 1 = \underline{7}$

3) $10 + x^2 = \underline{26}$

4) $-x - 12 = \underline{-16}$

5) $-4 + x^2 = \underline{12}$

6) $x^2 - 1 = \underline{15}$

1) $3y - 3 = \underline{-9}$

2) $-2y - 16 = \underline{-12}$

3) $16 + y^2 = \underline{20}$

4) $-2y + 20 = \underline{24}$

5) $y^2 + 12 = \underline{16}$

6) $-y^2 - 20 = \underline{-24}$

1) $t^2 + 75 = \underline{100}$

2) $-t - 25 = \underline{-20}$

3) $-t + 10 = \underline{15}$

4) $22 - 2t = \underline{32}$

5) $-4t - 5 = \underline{15}$

6) $-t - 10 = \underline{-5}$

1) $12 + q^2 = \underline{13}$

2) $-q^2 - q = \underline{-2}$

3) $q + 2q = \underline{-3}$

8) $-2q - 30 = \underline{-28}$

5) $-q - 2q = \underline{3}$

6) $3q^2 - 3 = \underline{0}$

1) $s^2 = \underline{9}$

2) $2s - 1 = \underline{-7}$

3) $s + s^3 = \underline{-30}$

4) $s + (-1) = \underline{-4}$

5) $-s + 27 = \underline{30}$

6) $s^2 - 1 = \underline{8}$