

Name: _____

Date: _____ Score: _____

Evaluate Algebraic Expressions

Find the value of the expressions for the given values of the variable.

1. $q - r - (-1)$ when $q = 1, r = 7$

2. $\frac{7x + 5}{-5}$ when $x = -3$

3. $q^3 - 3q + 12$ at $q = -5$

4. $\frac{c}{2} - 1$ at $c = 16$

5. $\frac{9v - 23}{5}$ at $v = 7$

6. $(b^2 - 4b)^2$ at $b = -2$

7. $6q(q + 7)^2$ at $q = -5$

8. $\frac{4}{12 - 2y} + 3$ at $y = 5$

9. $(y + 1)^4$ at $y = -2$

10. $5(k + 9)$ at $k = -14$

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Answers

1. $q - r - (-1)$ when $q = 1, r = 7$

-5

2. $\frac{7x + 5}{-5}$ when $x = -3$

$\frac{16}{5}$

3. $q^3 - 3q + 12$ at $q = -5$

4. $\frac{c}{2} - 1$ at $c = 16$

-98

7

5. $\frac{9v - 23}{5}$ at $v = 7$

6. $(b^2 - 4b)^2$ at $b = -2$

8

144

7. $6q(q + 7)^2$ at $q = -5$

8. $\frac{4}{12 - 2y} + 3$ at $y = 5$

-120

5

9. $(y + 1)^4$ at $y = -2$

10. $5(k + 9)$ at $k = -14$

1

-25