Evaluating Algebraic Expressions

Evaluate each algebraic expression.

1) $7a - b + 5c$ at $a = 6$, $b = 5$, $c = -10$

2) $2g^2 + h^3$ at $g = -1$, $h = -4$

3) $m + 3n^2 - 1$ at $m = 13$, $n = 2$

4) $w - y + z - x$ at $x = 10$, $y = -8$, $z = 14$, $w = 6$

5) $72 - q^2 + 3p$ at $p = -3$, $q = 7$

6) $3ab^2 - 4c^2d$ at $a = 2$, $b = 1$, $c = 3$, $d = 6$

7) $x^3 + y^2 - 11$ at $x = 5$, $y = -3$

8) $6uv - u^2 + v$ at $u = -10$, $v = 11$

Evaluating Algebraic Expressions

Answer key

Evaluate each algebraic expression.

1) $7a - b + 5c$ at $a = 6$, $b = 5$, $c = -10$

−13

2) $2g^2 + h^3$ at $g = -1$, $h = -4$

−62

3) $m + 3n^2 - 1$ at $m = 13$, $n = 2$

24

4) $w - y + z - x$ at $x = 10$, $y = -8$
$z = 14$, $w = 6$

18

5) $72 - q^2 + 3p$ at $p = -3$, $q = 7$

14

6) $3ab^2 - 4c^2d$ at $a = 2$, $b = 1$, $c = 3$, $d = 6$

−210

7) $x^3 + y^2 - 11$ at $x = 5$, $y = -3$

123

8) $6uv - u^2 + v$ at $u = -10$, $v = 11$

−749