

Evaluate the Expressions - Single Variable

Difficult: S1

Evaluate each algebraic expression for the given value of the variable.

1) $2a^2 - 2a - 15$ at $a = 13$

2) $\frac{72x^2 - 42x + 20}{7}$ at $x = -\frac{5}{6}$

3) $12v(32v^2 - 8)$ at $v = \frac{3}{4}$

4) $3p + 2 - \frac{p^3}{8}$ at $p = 8$

5) $s^3 + 7s - 12$ at $s = -6$

6) $5u^2 - 6u + 10$ at $u = \frac{2}{5}$

7) $7y^2 - 2y - 7$ at $y = -\frac{1}{7}$

8) $b^2 + \frac{4b - 89}{13}$ at $b = -20$

9) $(m^2 - 5m + 9)^2$ at $m = 5$

10) $8z^3 - 12z - 15$ at $z = \frac{3}{2}$

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Evaluate each algebraic expression for the given value of the variable.

1) $2a^2 - 2a - 15$ at $a = 13$

297

2) $\frac{72x^2 - 42x + 20}{7}$ at $x = -\frac{5}{6}$

15

3) $12v(32v^2 - 8)$ at $v = \frac{3}{4}$

90

4) $3p + 2 - \frac{p^3}{8}$ at $p = 8$

-38

5) $s^3 + 7s - 12$ at $s = -6$

-270

6) $5u^2 - 6u + 10$ at $u = \frac{2}{5}$

 $\frac{42}{5}$

7) $7y^2 - 2y - 7$ at $y = -\frac{1}{7}$

 $-\frac{46}{7}$

8) $b^2 + \frac{4b - 89}{13}$ at $b = -20$

387

9) $(m^2 - 5m + 9)^2$ at $m = 5$

81

10) $8z^3 - 12z - 15$ at $z = \frac{3}{2}$

-6