

Name : _____

Evaluate the Expressions - Single Variable

DS2

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

1) $6x^2 - 7x + 27$ at $x = -\frac{1}{6}$

2) $6m^3 + 4m^2 - 19$ at $m = -3$

3) $b^3 - 17b - 10$

9) $9)^2$ at $p = \frac{4}{5}$

5) $\frac{2s}{3}(4 - 2s)$ at

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11) at $n = 7$

7) $4(2c^2 - c)$ at

at $u = 9$

9) $q^3 - 3q + 12$ at $q = -5$

10) $\frac{12t - 34}{4}$ at $t = -\frac{1}{3}$

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Name : _____

Answer key

DS2

Evaluate the Expressions - Single Variable

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

1) $6x^2 - 7x + 27$ at $x = -\frac{1}{6}$

$\frac{85}{3}$

2) $6m^3 + 4m^2 - 19$ at $m = -3$

-145

3) $b^3 - 17b - 10$ at $b = -2$ 4) $9p^2$ at $p = \frac{4}{5}$

-36

5) $\frac{2s}{3}(4 - 2s)$ at $s = 7$ 6) $\frac{11n}{11}$ at $n = 7$

-340

7) $4(2c^2 - c)$ at $c = 2$ 8) u^2 at $u = 9$

$\frac{77}{8}$

9) $q^3 - 3q + 12$ at $q = -5$

-98

10) $\frac{12t - 34}{4}$ at $t = -\frac{1}{3}$

$-\frac{19}{2}$

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