

Name : \_\_\_\_\_

## Evaluate the Expressions - Single Variable

DS1

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)  $12v(32v^2 - 8)$

$\frac{32}{p^3}$  at  $p = 2$

5)  $s^3 + 7s - 12$

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$u + 10$  at  $u = \frac{2}{5}$

7)  $7y^2 - 2y - 7$  at

$\frac{89}{3}$  at  $b = -20$

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

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

**PREVIEW**

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## Answer key

### Evaluate the Expressions - Single Variable

DS1

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)  $12v(32v^2 - 8)$

**90**

$\frac{32}{p^3}$  at  $p = 2$

5)  $s^3 + 7s - 12$

**-270**

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$u + 10$  at  $u = \frac{2}{5}$

7)  $7y^2 - 2y - 7$  at

**$-\frac{46}{7}$**

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$\frac{89}{3}$  at  $b = -20$

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

**81**

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

**-6**