

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

## Evaluate the Expressions - Single Variable

DS3

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

1)  $\frac{3}{u}(u^2 + 68)$  at  $u = -12$

2)  $z^3 - 6z + 44$  at  $z = -\frac{1}{2}$

3)  $d^2 - 9d + 5$  at  $d = 240$  at  $t = 10$

5)  $(9s - 8)^3$  at  $s = 36$  at  $y = \frac{3}{4}$

7)  $\frac{5p(3p - 7)}{13}$  at  $p = 16$  at  $m = 7$

9)  $21r(63r + 3)$  at  $r = -\frac{3}{7}$

10)  $-27n(45n - 19)^2$  at  $n = \frac{5}{9}$

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**Evaluate the Expressions - Single Variable**

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

1)  $\frac{3}{u}(u^2 + 68)$  at  $u = -12$

**-53**

2)  $z^3 - 6z + 44$  at  $z = -\frac{1}{2}$

 **$\frac{375}{8}$** 

3)  $d^2 - 9d + 5$  at  $d = 10$

**-13**

5)  $(9s - 8)^3$  at  $s = 1$

**-125**

7)  $\frac{5p(3p - 7)}{13}$  at  $p = 7$

**10**

9)  $21r(63r + 3)$  at  $r = -\frac{3}{7}$

**216**

10)  $-27n(45n - 19)^2$  at  $n = \frac{5}{9}$

**-540**

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