

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

## Evaluate the Expressions - Single Variable

DS4

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

1)  $6p(p + 7)^2$  at  $p = -5$

2)  $\frac{9c}{24c^3 - 48c + 6}$  at  $c = \frac{2}{3}$

3)  $\frac{5}{2}(9 - 6s)$  at  $s = 16$  at  $m = 12$

5)  $7v(31v^2 - 6)$  at  $v = \frac{1}{2}$

7)  $-5u + 2 - \frac{u^3}{8}$  at  $u = -6$  at  $y = -\frac{3}{4}$

9)  $\frac{6a(7a + 16)}{14}$  at  $a = 7$

10)  $3t^2 + 6t - 63$  at  $t = -\frac{5}{2}$

**PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

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

## Answer key

DS4

### Evaluate the Expressions - Single Variable

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

1)  $6p(p + 7)^2$  at  $p = -5$

**-120**

2)  $\frac{9c}{24c^3 - 48c + 6}$  at  $c = \frac{2}{3}$

**$-\frac{27}{85}$**

3)  $\frac{5}{2}(9 - 6s)$  at  $s = 16$  at  $m = 12$

**25**

5)  $7v(31v^2 - 6)$  at  $v = \frac{1}{2}$

**-175**

7)  $-5u + 2 - \frac{u^3}{8}$  at  $u = -6$  at  $y = -\frac{3}{4}$

**30**

9)  $\frac{6a(7a + 16)}{14}$  at  $a = 7$

**195**

10)  $3t^2 + 6t - 63$  at  $t = -\frac{5}{2}$

**$-\frac{237}{4}$**

**PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)