

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

Date: \_\_\_\_\_ Score: \_\_\_\_\_

# Solving Algebraic Expressions

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

1.  $\frac{5q(3q - 7)}{13}$  at  $q = 1$

2.  $4(2b^2 - b)$  at  $b = 4$

3. \_\_\_\_\_  
 $\frac{12t - 34}{4}$  at  $t = -\frac{1}{3}$

4. \_\_\_\_\_  
 $6s(s + 7)^2$  at  $s = -8$

5. \_\_\_\_\_  
 $\frac{60}{g(g + 7)}$  at  $g = 5$

6. \_\_\_\_\_  
 $\frac{9x - 23}{5}$  at  $x = 7$

7. \_\_\_\_\_  
 $4a^3 - 11a^2 + 3$  at  $a = -2$

8. \_\_\_\_\_  
 $(p^2 - 5p + 9)^2$  at  $p = 5$

\_\_\_\_\_

\_\_\_\_\_

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## Answers

1.  $\frac{5q(3q - 7)}{13}$  at  $q = 1$

$-\frac{20}{13}$

2.  $4(2b^2 - b)$  at  $b = 4$

$112$

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

4.  $6s(s + 7)^2$  at  $s = -8$

$-\frac{19}{2}$

$6$

5.  $\frac{60}{g(g + 7)}$  at  $g = 5$

6.  $\frac{9x - 23}{5}$  at  $x = 7$

$1$

$8$

7.  $4a^3 - 11a^2 + 3$  at  $a = -2$

8.  $(p^2 - 5p + 9)^2$  at  $p = 5$

$-73$

$81$