

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

Teacher: \_\_\_\_\_ Date: \_\_\_\_\_

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## Introduction to derivative

Use the definition of the derivative to find the derivative of the following functions.

1.  $f(x) = 6$

2.  $V(t) = 3 - 14t$

3.  $g(x) = x^2$

4.  $Q(t) = 10 + 5t - t^2$

5.  $W(z) = 4z^2 - 9z$

6.  $f(x) = 2x^3 - 1$

7.  $g(x) = x^3 - 2x^2 + x - 1$

8.  $R(z) = \frac{5}{z}$

9.  $V(t) = \frac{t+1}{t+4}$

10.  $Z(t) = \sqrt{3t-4}$

11.  $f(x) = \sqrt{1-9x}$

12.  $f(x) = \sqrt{2x}$