

## Example

Find the derivatives of the following functions.

(a)  $f(x) = x^5$

(b)  $y = t$

(c)  $u = -\sqrt{s}$

(d)  $g(x) = \frac{5}{x^\pi}$

(e)  $v = 100x^2$

## Example

Find the derivatives of the following functions.

(a)  $f(x) = 1 + x^2$

(b)  $s(t) = s^2 + \frac{1}{s^2}$

(c)  $R(z) = \frac{3}{\sqrt{z}} - z^{100}$