

Find the derivative of the function.

1) $y = a^{2x}$

11) $y = \sqrt[3]{x^{25}}$

2) $y = a^{-\frac{1}{2}}$

12) $y = \sqrt{\frac{1}{x}}$

3) $y = x^{2a}$

13) $y = 2x^2$

4) $w = t^2$

14) $x = \sqrt[3]{a^7}$

5) $y = \sqrt[3]{a}$

15) $x = \sqrt{\frac{1}{a}}$