

Vocabulary/Definitions

- The Chain Rule
- Interpreting the chain rule in practical terms

Understand

1. If we write $y = (3x - 4^x)^2$ as $y = f(z) = f(g(x))$, what are $f(z)$ and $z = g(x)$?

2. Find $\frac{dy}{dx}$ if $y = (3x - 4^x)^2$.

3. If we write $y = 2^{e^x}$ as $y = f(z) = f(g(x))$, what are $f(z)$ and $z = g(x)$?

4. Find $\frac{dy}{dx}$ if $y = 2^{e^x}$.