

1. Graph  $f(x) = 2x + 3$

Graph  $f^{-1}(x)$ .

Determine the equation for  $f^{-1}(x)$ .

Explain how the two functions are connected?

2. Graph  $f(x) = 2x^3 + 3$

Graph  $f^{-1}(x)$ .

Determine the equation for  $f^{-1}(x)$ .

Explain how the two functions are connected?

3. Graph  $f(x) = 2^x - 7$

Graph  $f^{-1}(x)$ .

Determine the equation for  $f^{-1}(x)$ .

Explain how the two functions are connected?

4. Graph  $f(x) = 10^x$

Graph  $f^{-1}(x)$ .

Determine the equation for  $f^{-1}(x)$ .

Explain how the two functions are connected?

5. Graph  $f(x) = \log_2 x$

6. Graph  $f(x) = \log_{0.5} x$

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