



FUNCTIONS

INVERSE FUNCTIONS

Ref: G283. **2F1**

<p>A1</p> $f(x) = x + 5$ <p>Express the inverse function f^{-1} in the form $f^{-1}(x) = \dots$</p>	<p>A2</p> $g(x) = x - 5$ <p>Express the inverse function g^{-1} in the form $g^{-1}(x) = \dots$</p>	<p>A3</p> $h(x) = 2x$ <p>Express the inverse function h^{-1} in the form $h^{-1}(x) = \dots$</p>	<p>A4</p> $f(x) = \frac{x}{3}$ <p>Express the inverse function f^{-1} in the form $f^{-1}(x) = \dots$</p>
<p>B1</p> $g(x) = 2x + 5$ <p>Find $g^{-1}(x)$</p>	<p>B2</p> $h(x) = \frac{x}{3} - 5$ <p>Find $h^{-1}(x)$</p>	<p>B3</p> $f(x) = 2(x + 5)$ <p>Find $f^{-1}(x)$</p>	<p>B4</p> $g(x) = \frac{x-5}{3}$ <p>Find $g^{-1}(x)$</p>
<p>C1</p> $h(x) = x^2$ <p>Find $h^{-1}(x)$</p>	<p>C2</p> $f(x) = \sqrt{x}$ <p>Find $f^{-1}(x)$</p>	<p>C3</p> $h(x) = x^2 - 7$ <p>Find $h^{-1}(x)$</p>	<p>C4</p> $f(x) = (x - 7)^2$ <p>Find $f^{-1}(x)$</p>
<p>D1</p> $g(x) = \sqrt{x} + 5$ <p>Find $g^{-1}(x)$</p>	<p>D2</p> $f(x) = \sqrt{x-5}$ <p>Find $f^{-1}(x)$</p>	<p>D3</p> $h(x) = \frac{\sqrt{x}}{3}$ <p>Find $h^{-1}(x)$</p>	<p>D4</p> $f(x) = \sqrt{\frac{x}{3}}$ <p>Find $f^{-1}(x)$</p>



FUNCTIONS INVERSE FUNCTIONS

Ref: G238. **2F1**

<p>A1</p> $f(x) = x + 5 \quad f^{-1}(x) = x - 5$ <p>Express the inverse function f^{-1} in the form $f^{-1}(x) = \dots$</p>	<p>A2</p> $g(x) = x - 5 \quad g^{-1}(x) = x + 5$ <p>Express the inverse function g^{-1} in the form $g^{-1}(x) = \dots$</p>	<p>A3</p> $h(x) = 2x \quad h^{-1}(x) = \frac{x}{2}$ <p>Express the inverse function h^{-1} in the form $h^{-1}(x) = \dots$</p>	<p>A4</p> $f(x) = \frac{x}{3} \quad f^{-1}(x) = 3x$ <p>Express the inverse function f^{-1} in the form $f^{-1}(x) = \dots$</p>
<p>B1</p> $g(x) = 2x + 5$ <p>Find $g^{-1}(x) = \frac{x-5}{2}$</p>	<p>B2</p> $h(x) = \frac{x}{3} - 5$ <p>Find $h^{-1}(x) = 3(x+5)$</p>	<p>B3</p> $f(x) = 2(x+5)$ <p>Find $f^{-1}(x) = \frac{x-10}{2}$</p>	<p>B4</p> $g(x) = \frac{x-5}{3}$ <p>Find $g^{-1}(x) = 3x+5$</p>
<p>C1</p> $h(x) = x^2$ <p>Find $h^{-1}(x) = \pm\sqrt{x}$</p>	<p>C2</p> $f(x) = \sqrt{x}$ <p>Find $f^{-1}(x) = x^2$</p>	<p>C3</p> $h(x) = x^2 - 7$ <p>Find $h^{-1}(x) = \pm\sqrt{x+7}$</p>	<p>C4</p> $f(x) = (x-7)^2$ <p>Find $f^{-1}(x) = 7 \pm \sqrt{x}$</p>
<p>D1</p> $g(x) = \sqrt{x} + 5$ <p>Find $g^{-1}(x) = (x-5)^2$</p>	<p>D2</p> $f(x) = \sqrt{x-5}$ <p>Find $f^{-1}(x) = x^2 + 5$</p>	<p>D3</p> $h(x) = \frac{\sqrt{x}}{3}$ <p>Find $h^{-1}(x) = 9x^2$</p>	<p>D4</p> $f(x) = \sqrt{\frac{x}{3}}$ <p>Find $f^{-1}(x) = 3x^2$</p>