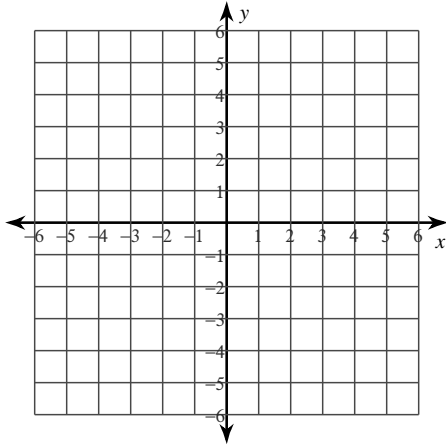


Functions and Inverses

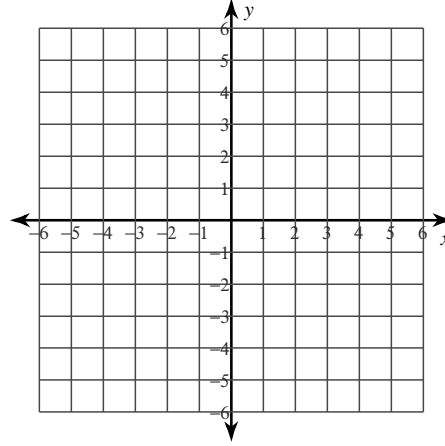
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Find the inverse of each function. Graph the function AND its INVERSE

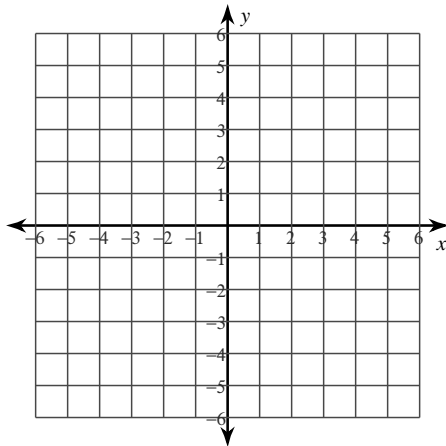
1) $f(x) = (x + 1)^3 - 2$



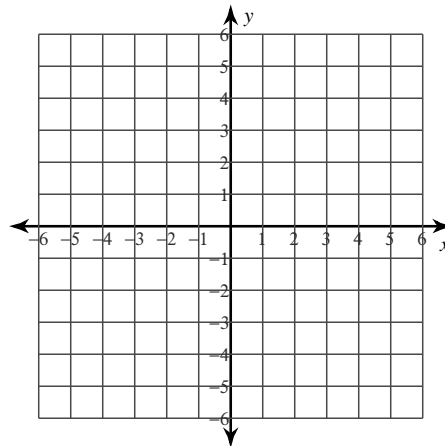
2) $f(x) = -x - 1$



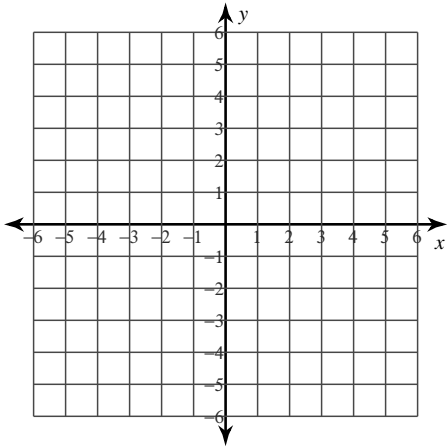
3) $f(x) = x + 4$



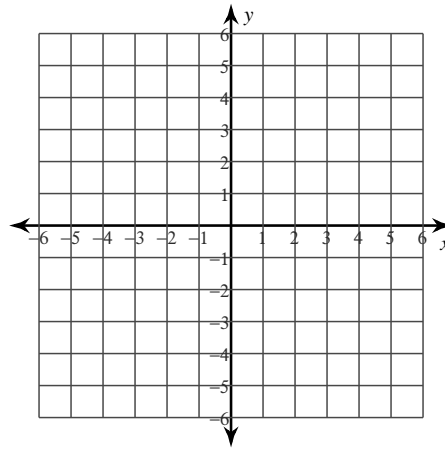
4) $f(x) = (x - 2)^3 + 2$



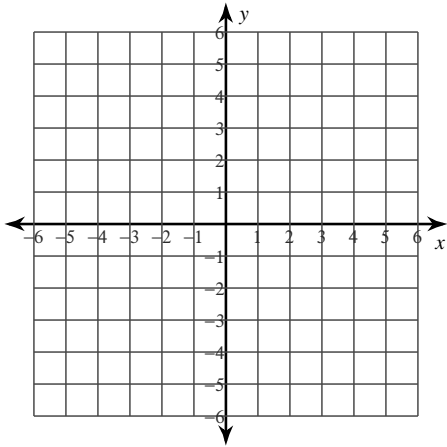
5) $h(x) = 4x + 2$



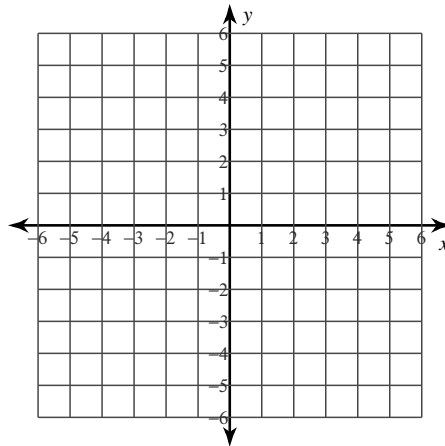
6) $f(x) = -x^3 + 3$



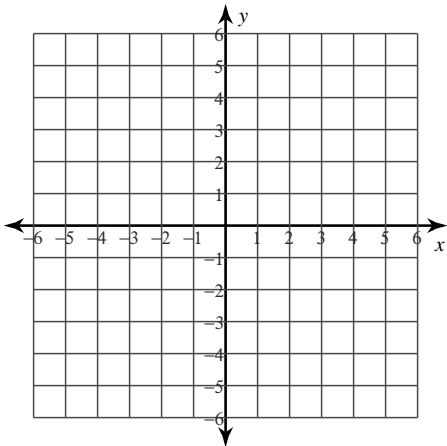
7) $f(x) = -\frac{1}{x-2} - 2$



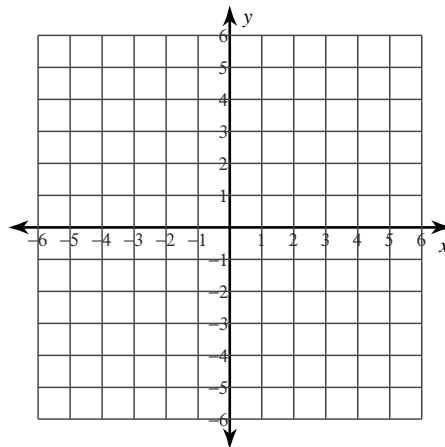
8) $f(x) = \sqrt[3]{x-1}$



9) $h(x) = \frac{1}{2}x + 2$



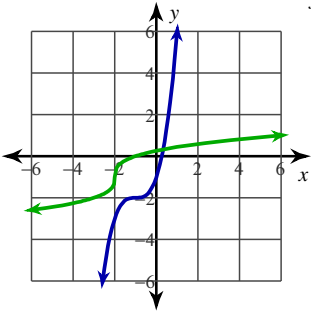
10) $f(x) = \sqrt[3]{x}$



Answers to Functions and Inverses (ID: 1)

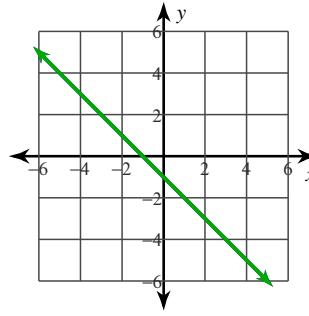
1)

$$f^{-1}(x) = \sqrt[3]{x+2} - 1$$



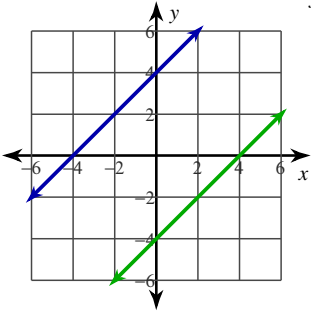
2)

$$f^{-1}(x) = -x - 1$$



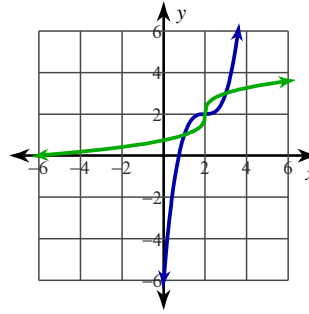
3)

$$f^{-1}(x) = x - 4$$



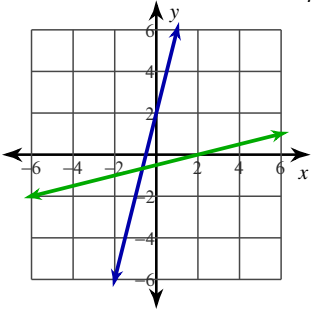
4)

$$f^{-1}(x) = \sqrt[3]{x-2} + 2$$



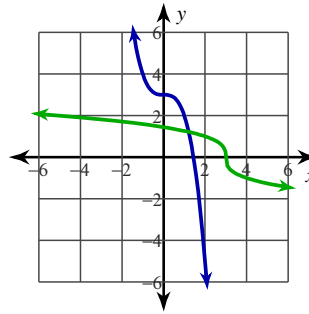
5)

$$h^{-1}(x) = \frac{1}{4}x - \frac{1}{2}$$



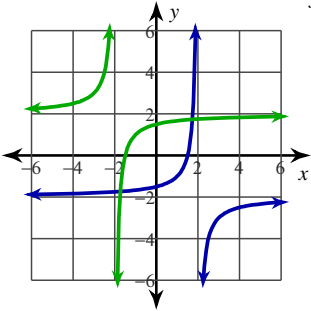
6)

$$f^{-1}(x) = \sqrt[3]{-x+3}$$



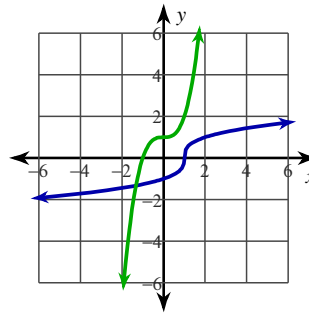
7)

$$f^{-1}(x) = -\frac{1}{x+2} + 2$$



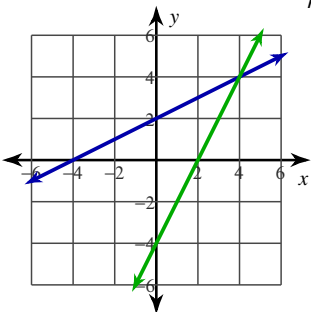
8)

$$f^{-1}(x) = 1 + x^3$$



9)

$$h^{-1}(x) = 2x - 4$$



10)

$$f^{-1}(x) = x^3$$

