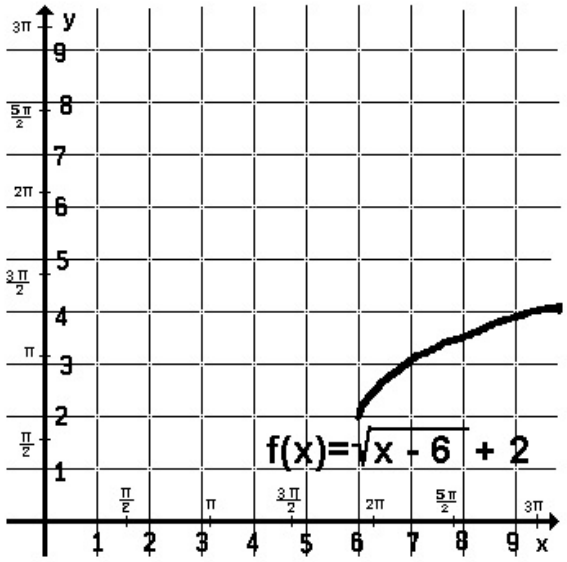
Problems & Answers on Finding Inverses Verbally, Graphically, Algebraically

See Notes on Inverse Functions. Print this page. Click on graphics to see answers.

List domain and range. Determine the inverse "verbally," graphically, & algebraically, if one exists.

1. f(x) = sqrt(x - 6) + 2
   domain: $x \geq 6$
   range: $y \geq 2$
   inverse: $f^{-1}(x)$ =



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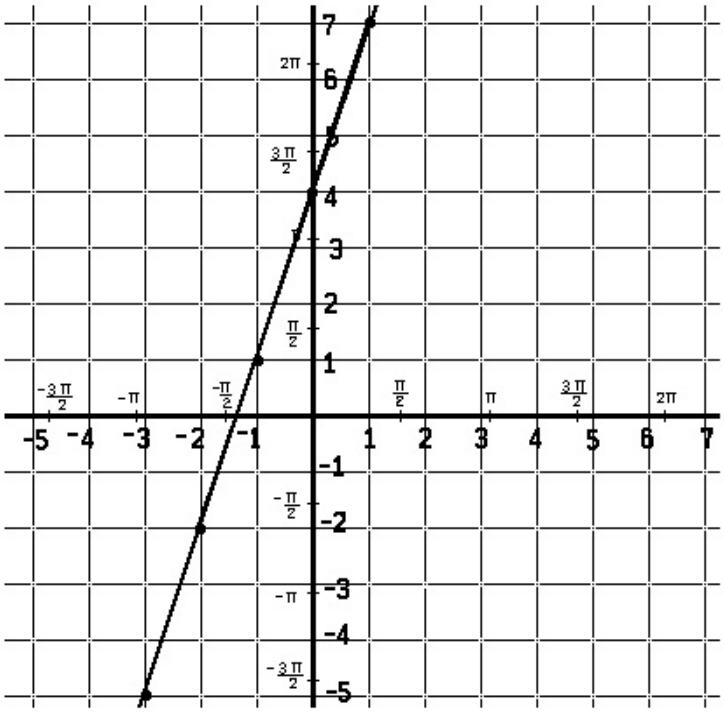
2. f(x) = 3x + 4
   domain: all real numbers
   range: all real numbers
   inverse: $f^{-1}(x)$ =

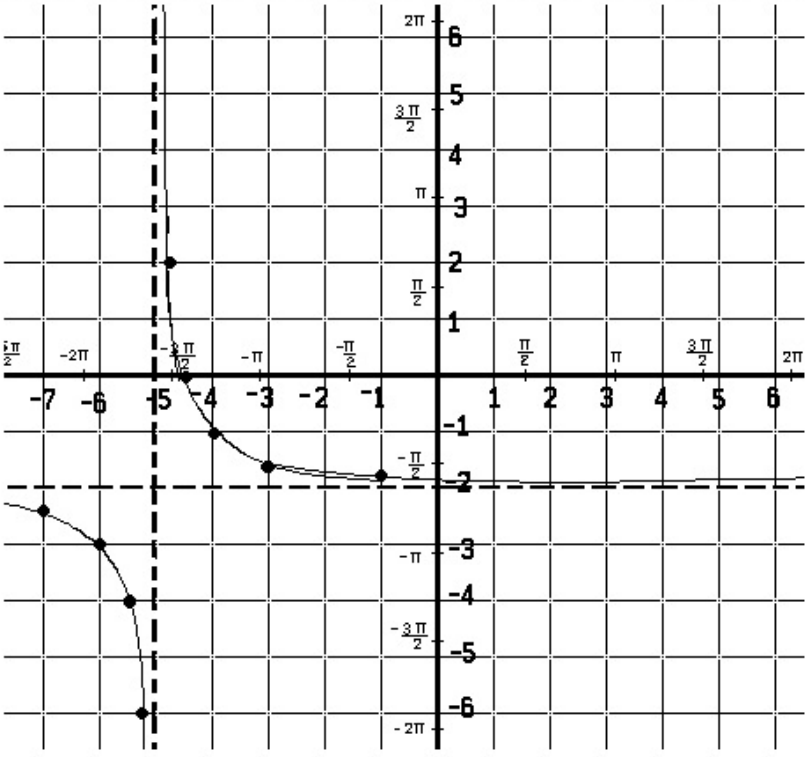


3. y = 1/(x + 5) - 2

domain: x is not -5

range: y is not -2

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



4. Find inverse algebraically.

$$y = \sqrt[3]{\frac{x+1}{2}}$$