

SI Worksheet 10

Inverse Functions

Find the inverses:

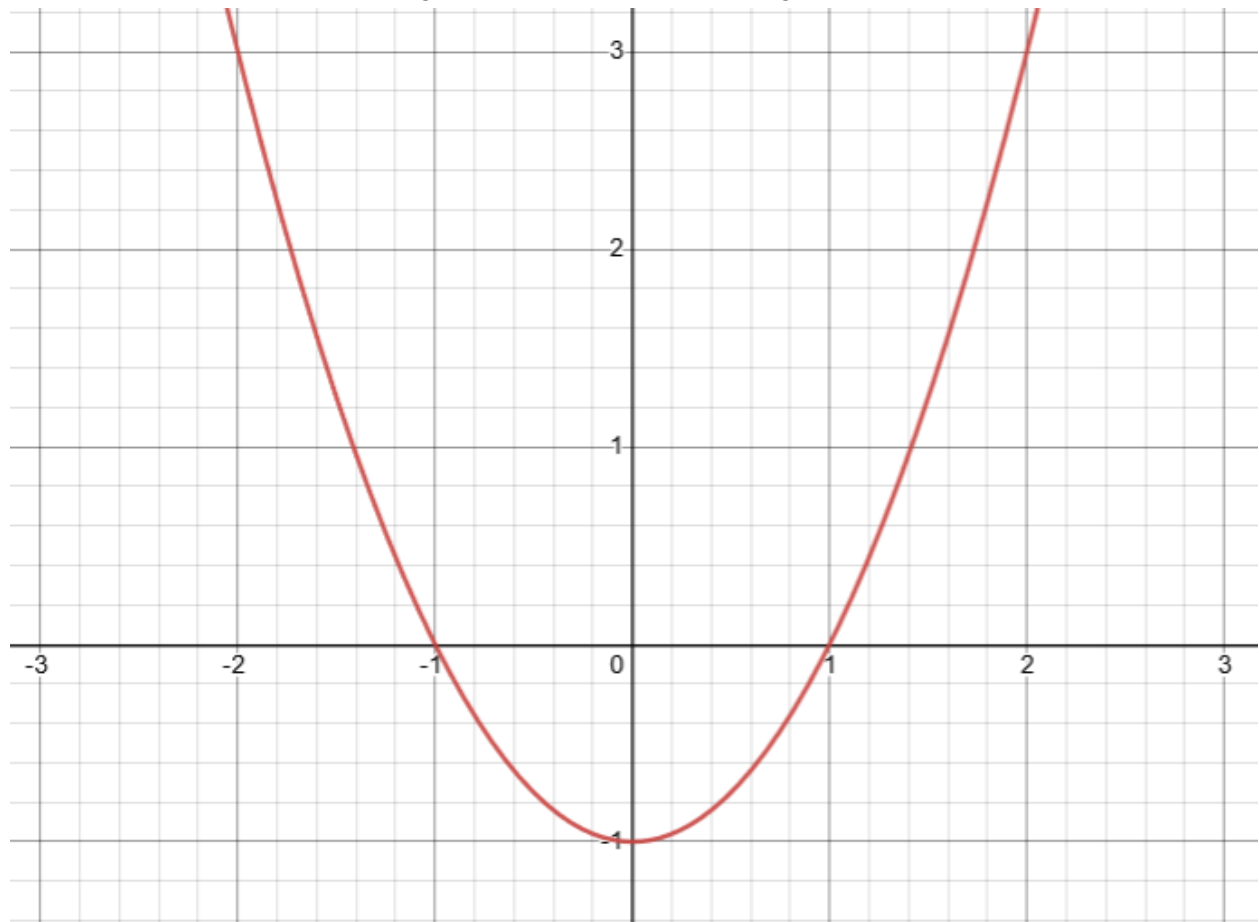
1) $\{(1, -3), (-2, 3), (5, 1), (6, 4)\}$

2) $y = \frac{2}{3}x - 5$

3) $y = (x + 3)^2$

4) Verify that these two equations are inverses: $f(x) = \frac{1}{2}x - 7$, $g(x) = 2x + 14$

5) Find the equation of the graph, find its inverse, then graph the inverse.



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Exponential Functions

Graph the following functions:

6) $y = 3 \times 2^{x-2} + 2$

7) $y = 4 \times \left(\frac{1}{2}\right)^{x-1} - 2$

8) $y = 3^{2x+1} - 1$

Find the inverse of the following functions:

9) $y = 6^x$

10) $y = 4^x + 10$