Name: _____

Period:

Write the inverse of each relation. The inverse of relation Z is written Z^{-1}.

1) A = {(1,-2),(3,7),(4,-5),(6,-3),(10,-1)}

A^{-1} =

2) B = {(-3,-1),(-2,4),(-1,0),(0,-3)}

B^{-1} =
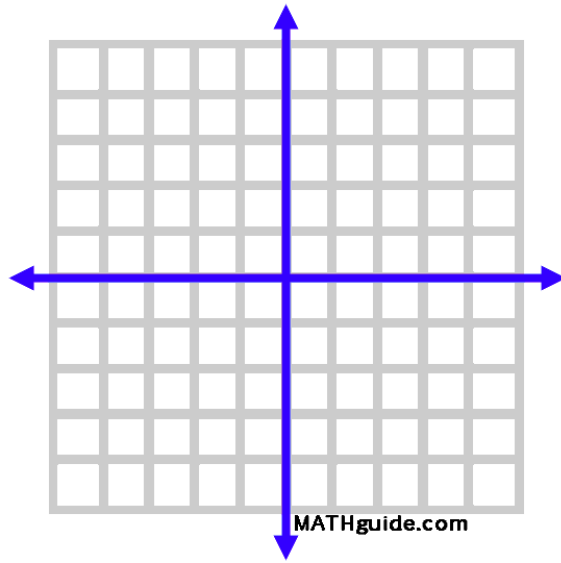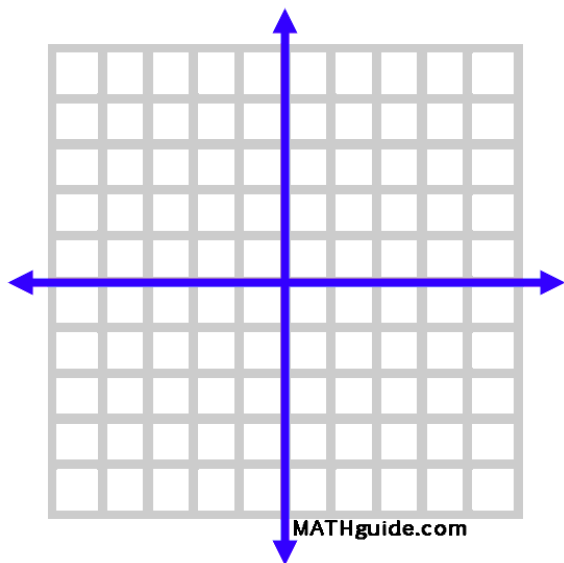
3) C = {(-9,7),(4,-2),(7,9),(12,1),(13,0)}

C^{-1} =

4) D = {(-12,-9),(3,4),(4,-5),(6,0),(11,1)}

D^{-1} =

Calculate the inverse of each function. Then, graph the function, its inverse, and the line y = x all on the same coordinate plane for each problem below. Use the back of this sheet to show your work.

5) $f(x) = 2x - 4$

6) $g(x) = \dfrac{1}{3}x + 2$

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7) $h(x) = x^2 - 2$

8) $j(x) = (x - 1)^2 + 1$

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