

Example 2: The graph of $y = \sqrt{x}$ undergoes the transformation, $y = 3\sqrt{x-4}-2$ So (x, y) becomes (,)So (4, 2) would become (,) $\rightarrow(,)$ Example 3: If y = f(x) is transformed to $y = -\frac{1}{2}f(x-8)+3$ (x, y) becomes (,) Your Turn: If $y = \sqrt{x}$ is transformed to $y = \left(\frac{1}{2}x\right)^2 + 3$ (x, y) becomes (,)So (1,1) would become (,) $\rightarrow (,)$ Try: If (-8, 4) is on the graph of y = -3f[2(x+6)]+7then what point, (x, y), was on the original? (x, y) became (,)

Review Practice:

1. Describe the transformations of the following compared to y = f(x)Give the coordinates of the point (3, -6) after the transformations.

Function	Describe the transformation clearly	Coordinates of the point after transformation
y = f(-x)		
$y = \frac{1}{2}f(x)$		
y = f(x-4)		
y = f(3x)		
y = -f(x)		
y = f(x) + 5		
$y = f^{-1}(x)$		









Reflections Assignment 1.doc

Transformations Quiz 2a.doc