1.8 Transformations of Functions

Feb 17

$$y = af[k(x-b)] + c$$

Input/Output
$$y = af[k(x-b)] + c$$

$$\times \longrightarrow (-6) \longrightarrow (\times k) \longrightarrow ((\times)) \longrightarrow (\times \wedge) \longrightarrow (+0) \longrightarrow ($$

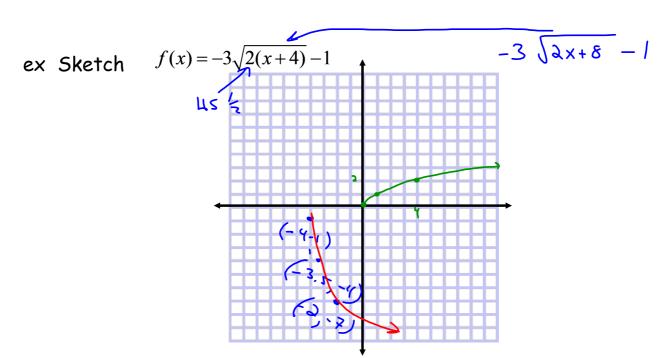
Mapping rule

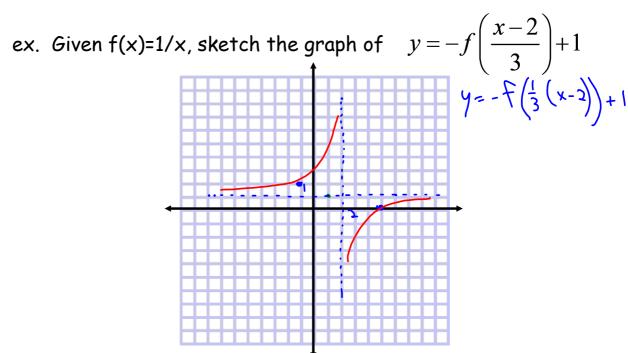
$$y = af[k(x-b)] + c$$

$$(x,y) \rightarrow (tx+b, ay+c)$$

Determine the image of the point (3,-4) under the following transformation y = -3 f(2(x+4)) - 1

$$\frac{MRPPING}{(3,4)} \xrightarrow{(\frac{1}{2}x-4,-3y-1)} \left(\frac{1}{2}x-4,-3y-1\right) = \left(-25,11\right)$$





Homework p. 70#1,5-10,18,22