The effect of transformations on specific points

Sometimes you will not be given the original function, but will be given a sketch with specific points and features you need to transform.

Where would each of these points end up?

|  |  |  |  |
| --- | --- | --- | --- |
| $$y=f\left(x\right)$$ | $$\left(4,3\right)$$ | $$\left(1,0\right)$$ | $$\left(6,-4\right)$$ |
| $$y=f\left(x+1\right)$$ |  |  |  |
| $$y=f\left(2x\right)$$ |  |  |  |
| $$y=3f\left(x\right)$$ |  |  |  |
| $$y=f\left(x\right)-1$$ |  |  |  |
| $$y=f\left(\frac{x}{4}\right)$$ |  |  |  |
| $$y=f\left(-x\right)$$ |  |  |  |
| $$y=-f\left(x\right)$$ |  |  |  |

Test Your Understanding



a)

b)

  

c)

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