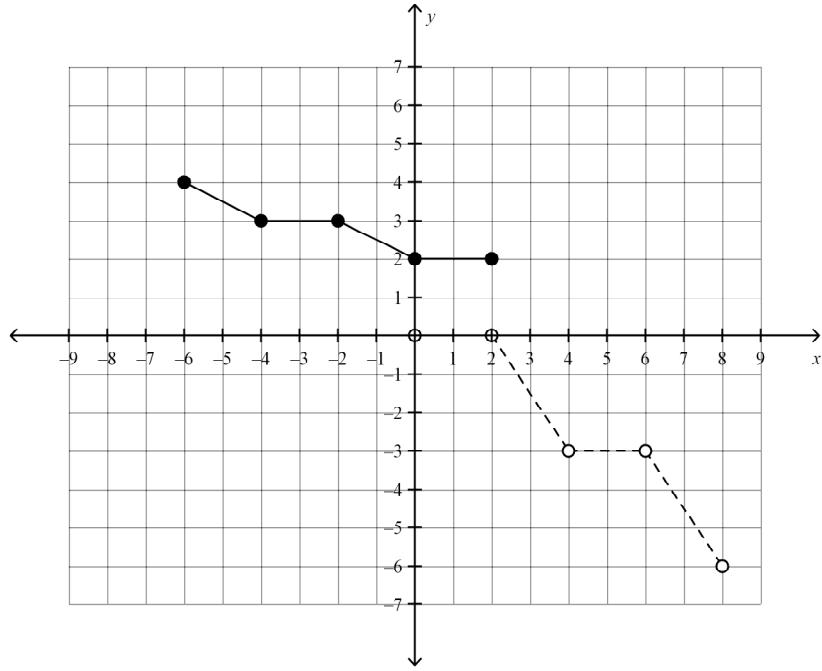


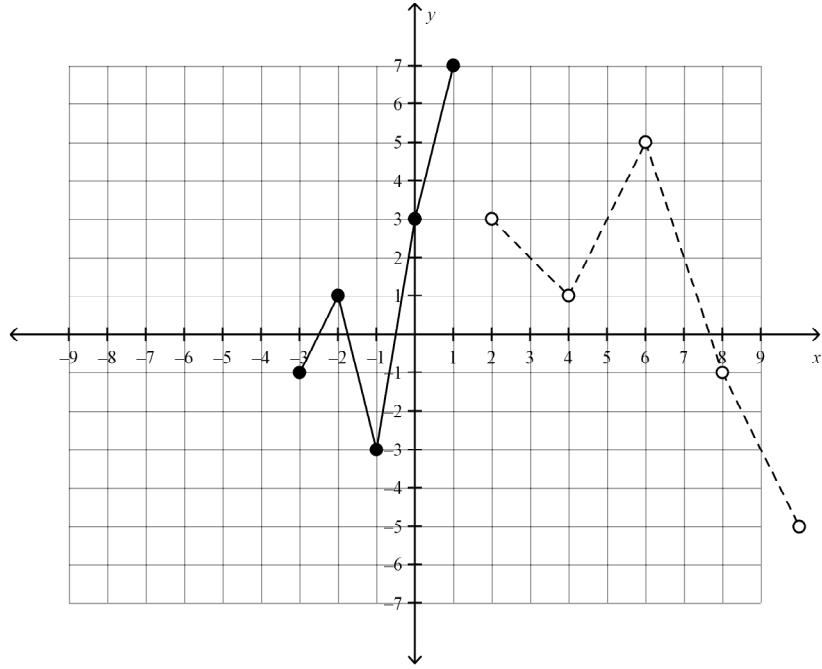
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MCR3U - WS - Transformations of Functions

1. The graph of $y = f(x)$ is shown (dotted line). Determine the transformations (using proper terminology and conventions) for the transformed function $y = af[k(x-p)] + q$ (solid line).



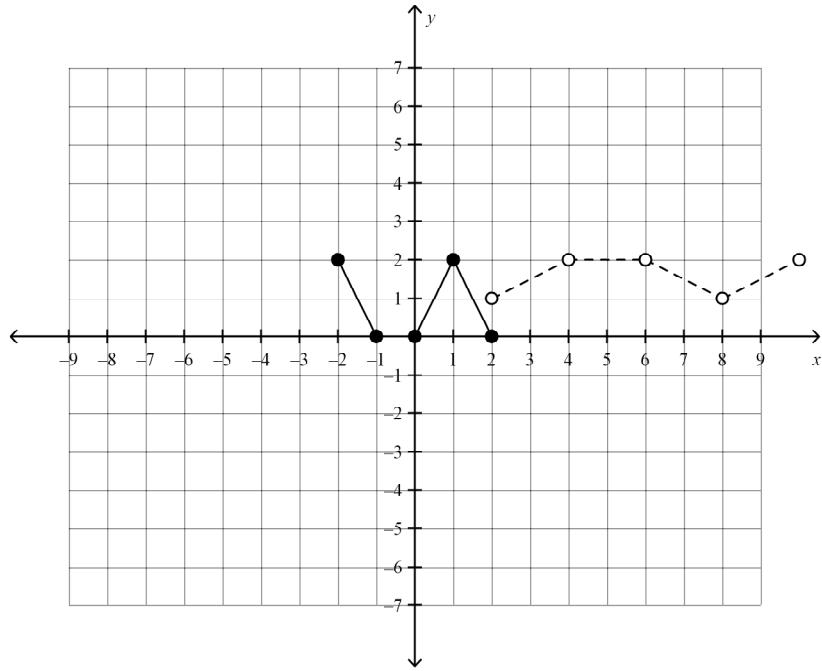
2. The graph of $y = f(x)$ is shown (dotted line). Determine the transformations (using proper terminology and conventions) for the transformed function $y = af[k(x-p)] + q$ (solid line).



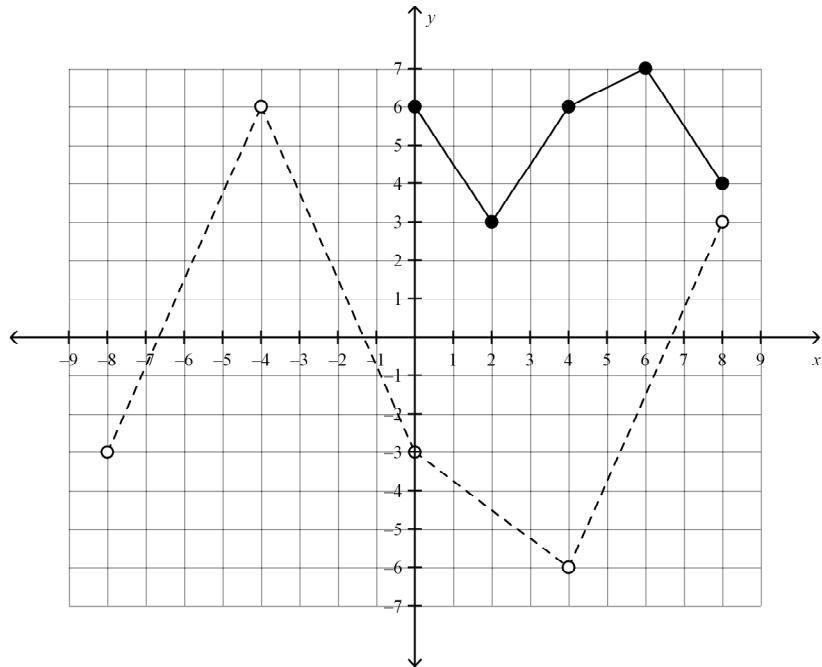
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3. The graph of $y = f(x)$ is shown (dotted line). Determine the transformations (using proper terminology and conventions) for the transformed function $y = af[k(x - p)] + q$ (solid line).



4. The graph of $y = f(x)$ is shown (dotted line). Determine the transformations (using proper terminology and conventions) for the transformed function $y = af[k(x - p)] + q$ (solid line).



**MCR3U - WS - Transformations of Functions
Answer Section**

1. ANS:

$$y = -\frac{1}{3}f[-(x - 2)] + 2,$$

PTS: 1

2. ANS:

$$y = -f[2(x + 4)] + 2,$$

PTS: 1

3. ANS:

$$y = -2f[2(x + 3)] + 4,$$

PTS: 1

4. ANS:

$$y = -\frac{1}{3}f[2(x - 4)] + 5,$$

PTS: 1