

PC 1-7 Practice Problems

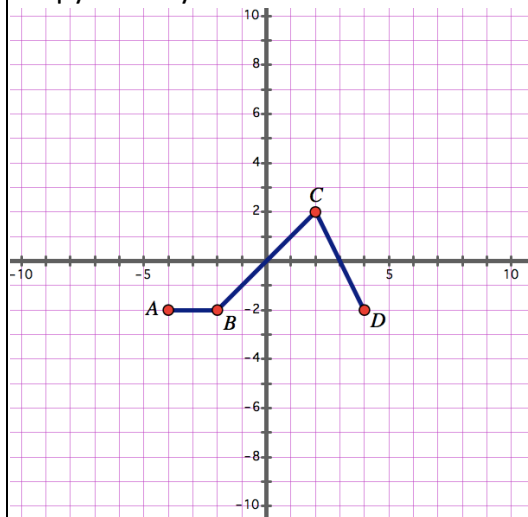
Point P is initially located at $(-4, 16)$ on the graph of $y=g(x)$.

- Determine the location of P' after the given transformation of g .
- Describe the transformation step by step.
- Write a coordinate rule for each transformation.

- $5g(x)$
- $g(2x)$
- $g(x - 9)$
- $g(x) + 4$
- $g(x - 5) - 7$
- $-g(4x)$

- $3g(-x)$
- $g\left(\frac{1}{4}x\right) - 6$
- $3g(x) - 1$
- $g\left(\frac{1}{2}(x - 4)\right)$
- $-\frac{1}{8}g(2(x + 3)) + 5$

The graph of $f(x)$ is below. Copy it into your notebook.



In your notebook, graph the following:

- $f(x - 2) + 1$
- $-f(x)$
- $\frac{1}{2}f(x + 3)$
- $f(2x) - 1$
- $-2f(x - 3)$
- $f\left(-\frac{1}{2}x\right)$

Let $h(x) = |x|$

Graph h in your notebook.

Now graph the following in your notebook.

- $2h(x - 3)$
- $h(2x) - 4$
- $-h(x + 1)$
- $h\left(\frac{1}{3}x\right)$
- $3h(x - 1) - 9$
- $h\left(\frac{1}{2}(x + 3)\right) - 1$

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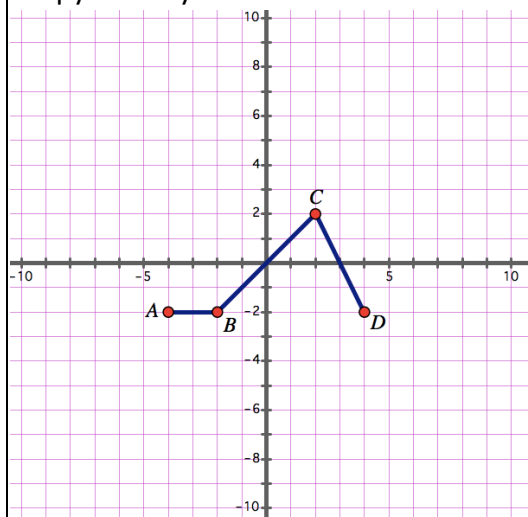
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