

PC 1-7 Practice Problems

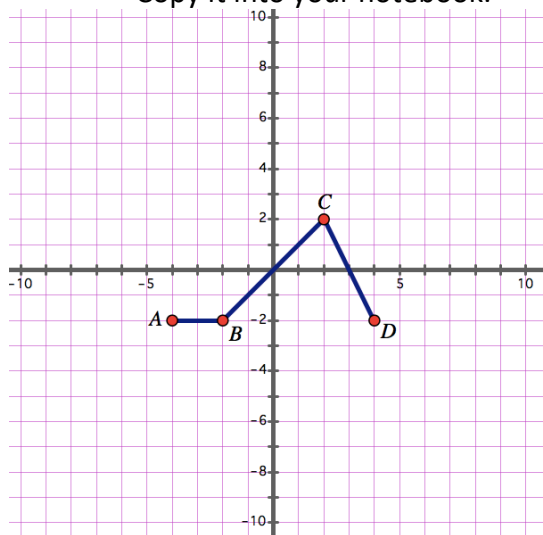
Point P is initially located at $(-4, 16)$ on the graph of $y=g(x)$.

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

- a) $5g(x)$
- b) $g(2x)$
- c) $g(x - 9)$
- d) $g(x) + 4$
- e) $g(x - 5) - 7$
- f) $-g(4x)$

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

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



In your notebook, graph the following:

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

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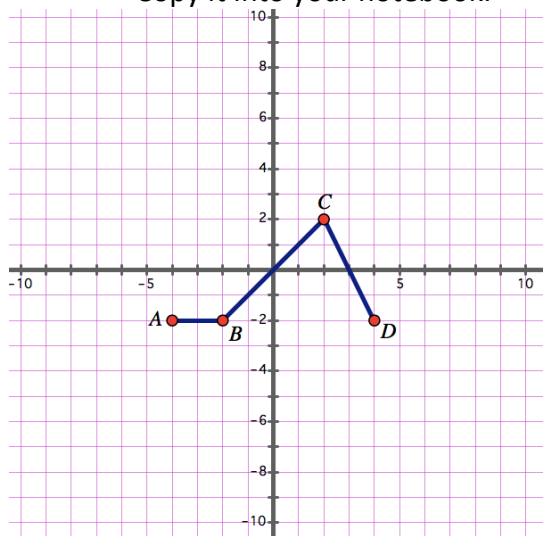
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