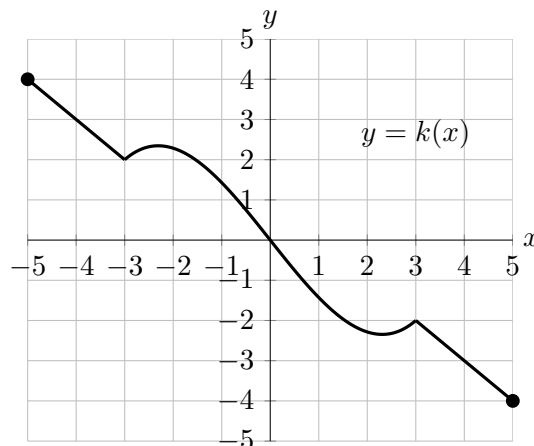
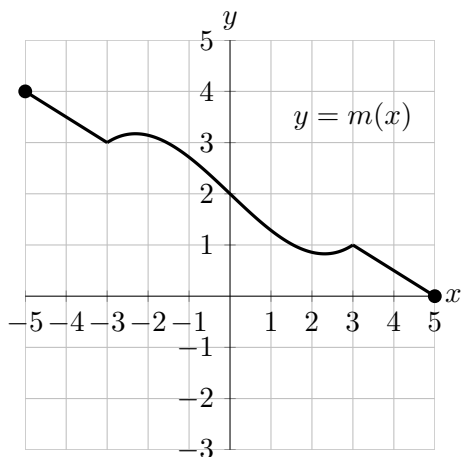


10. [6 points] A part of the graph of a function $k(x)$ with domain $-5 \leq x \leq 5$ is given below.

In each of the following parts, the corresponding portion of the graph of a function obtained from k by one or more transformations is shown, together with a list of possible formulas for that function. In each case, circle *all* possible formulas for the function shown. *Note that the graphs are not all drawn at the same scale.*

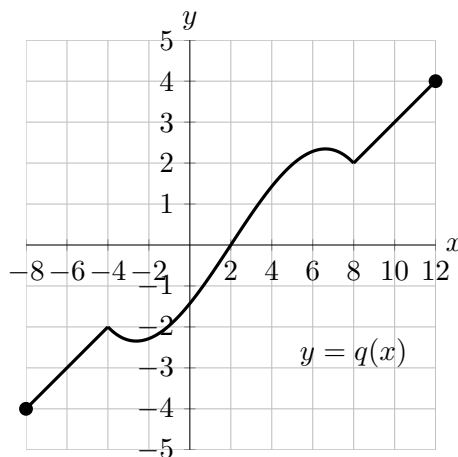


a. [3 points]



- | | |
|----------------------------|------------------|
| A. $\frac{1}{2}k(x) - 2$ | F. $2k(x) - 2$ |
| B. $\frac{1}{2}k(x) + 2$ | G. $2k(x) + 2$ |
| C. $-\frac{1}{2}k(-x) - 2$ | H. $-2k(-x) - 2$ |
| D. $-\frac{1}{2}k(-x) + 2$ | I. $-2k(-x) - 2$ |
| E. $-\frac{1}{2}k(x) - 2$ | J. $-2k(x) + 2$ |
| | K. NONE OF THESE |

b. [3 points]



- | | |
|---------------------|---------------------|
| A. $k(2x + 2)$ | F. $-k(0.5x - 2)$ |
| B. $k(-2(x - 2))$ | G. $k(0.5x + 2)$ |
| C. $-k(2x + 2)$ | H. $k(0.5(x - 2))$ |
| D. $k(-2x + 2)$ | I. $k(2(x + 1))$ |
| E. $-k(0.5(x + 2))$ | J. $-k(0.5(x - 2))$ |
| | K. NONE OF THESE |