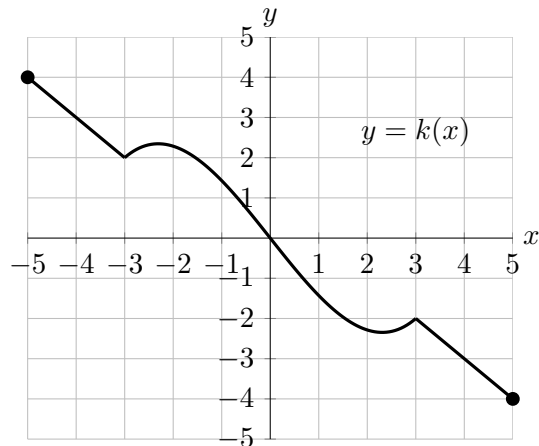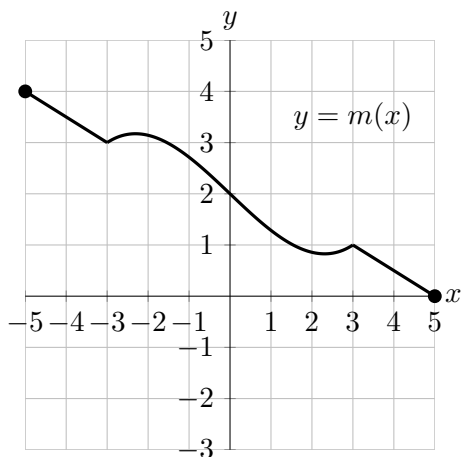**10.** [6 points] A part of the graph of a function $k(x)$ with domain $-5 \leq x \leq 5$ is given below.

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.*
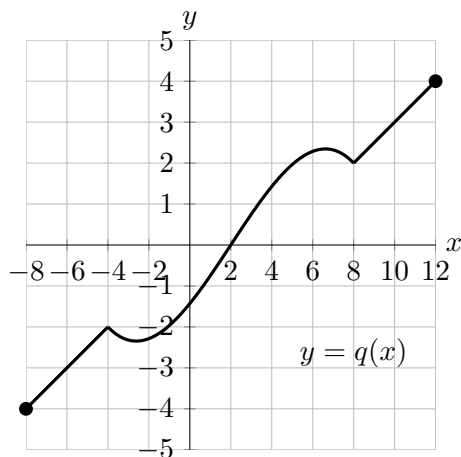

$y = k(x)$

a. [3 points]

$y = m(x)$

b. [3 points]

$y = q(x)$

a.

A. $\dfrac{1}{2}k(x) - 2$

B. $\boxed{\dfrac{1}{2}k(x) + 2}$

C. $-\dfrac{1}{2}k(-x) - 2$

D. $\boxed{-\dfrac{1}{2}k(-x) + 2}$

E. $-\dfrac{1}{2}k(x) - 2$

F. $2k(x) - 2$

G. $2k(x) + 2$

H. $-2k(-x) - 2$

I. $-2k(-x) - 2$

J. $-2k(x) + 2$

K. NONE OF THESE

b.

A. $k(2x + 2)$

B. $k(-2x - 2)$

C. $-k(2x + 2)$

D. $k(-2x + 2)$

E. $-k(0.5(x + 2))$

F. $-k(0.5x - 2)$

G. $k(0.5x + 2)$

H. $k(0.5(x - 2))$

I. $k(2(x + 1))$

J. $\boxed{-k(0.5(x - 2))}$

K. NONE OF THESE