Name: _____   Date: _____

Practice: Get Ready

Evaluating Expressions

1. Evaluate each expression by substituting for each variable.
   a) $(-x)^2 + 4$, when $x = 3$
   b) $2n^2 - n - 1$ when $n = -6$
   c) $n + m^2 - 3m$, when $m = 4$, $n = -16$
   d) $4s - r^2 + rs$, when $r = 5$, $s = 7$

Linear Relations

2. For each relation, make a table of values from $x = -2$ to $x = 2$, then graph the relation.
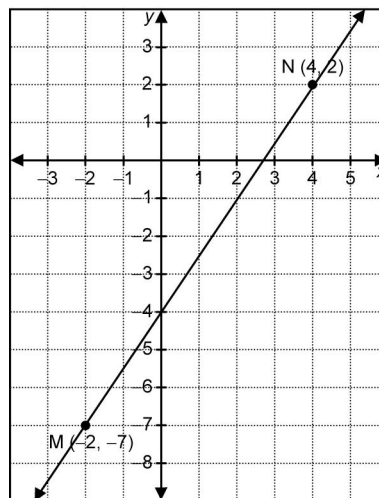   a) $y = x$
   b) $y = -x$
   c) $y = x - 1$
   d) $y = x + 1$
   e) $y = 2/3x + 2$

3. Check your answers and sketches from question 2, by using a graphing calculator to graph each relation.

4. Determine the x- and y-intercepts for each relation.
   a) $y = x + 2$
   b) $y = -x - 2$
   c) $y = -2x$
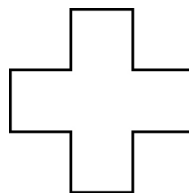   d) $y = 2x$
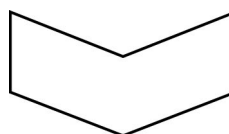   e) $y = 1/2x - 4$

5. Write the equation of this linear relation.

Lines of symmetry

6. How many lines of symmetry does each figure have?

a)

b)

c)