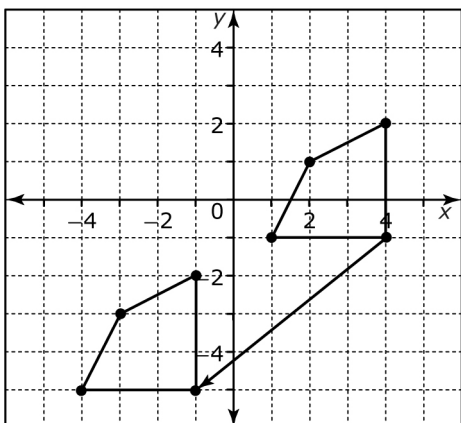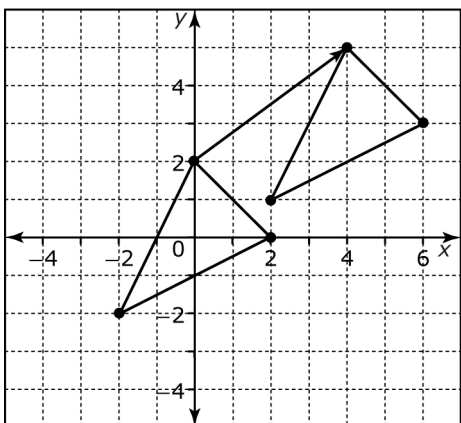# Section 6.2 Extra Practice

1. Describe the translation shown in each diagram.
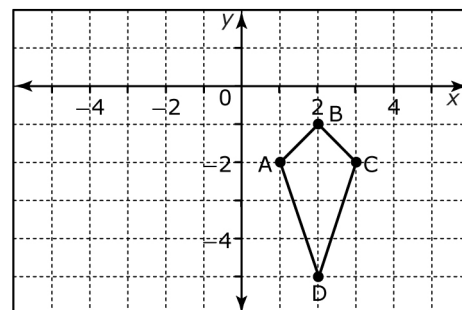
a)

b)

2. Point C is at (5, 1) on the coordinate grid. What are the coordinates of point C after it is translated

   a) 2 units left?

   b) 3 units up?

   c) 4 units right and 1 unit down?

   d) 5 units left and 2 units down?

   e) 6 units right and 4 units up?

3. a) Translate figure ABCD 4 units left and 5 units up.

   b) What are the coordinates of the translated image?

4. Plot each point on a coordinate grid. Then, plot the translation described. Perform each translation three times.

   a) (2, 1) translated 3 units left and 2 units up

   b) (−3, 4) translated 1 unit right and 2 units down
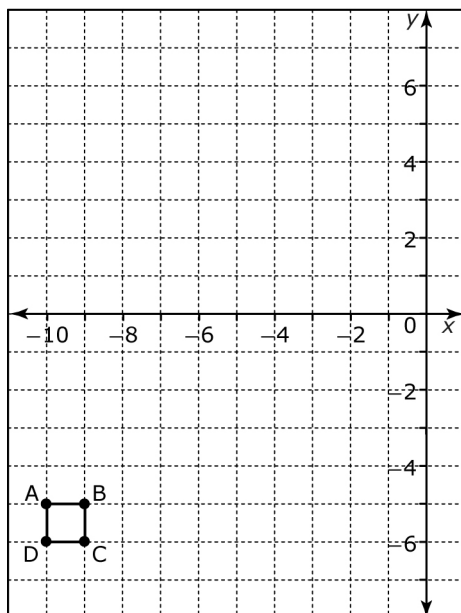
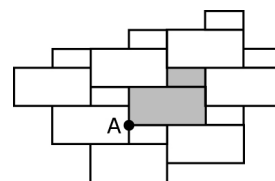   **c)** (4, −6) translated 2 units right and 3 units up

5. Perform three successive translations by sliding the square 4 units up and 2 units right.

6. a) Describe the successive translation for this tile pattern. The large rectangle is 2 by 4. The small rectangle is 1 by 2.

b) Draw the pattern on a grid, plotting point A at (3, 3).

c) Perform the translation twice.