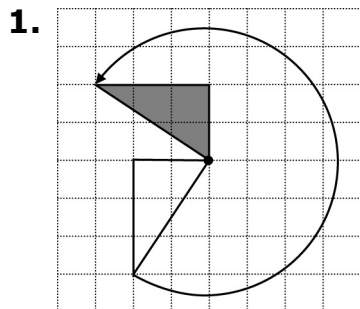# Section 1.3 Extra Practice

Draw a line to match each rotation in #1 to #3 with the correct description.
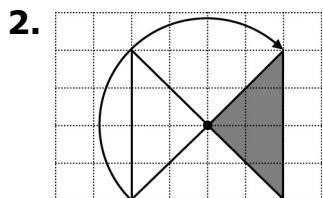
1.

A 90° counterclockwise
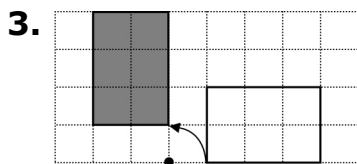
B 270° clockwise

C 180° clockwise

2.

D 90° clockwise

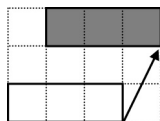**E** 180° counterclockwise

F 270° counterclockwise

3.

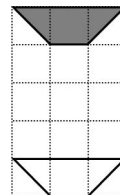**4.** Describe the translations shown by the arrows.

Example:

__1_ unit _right_

__2_ units _up_

a) ___ units _____

___ units _____
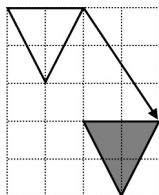
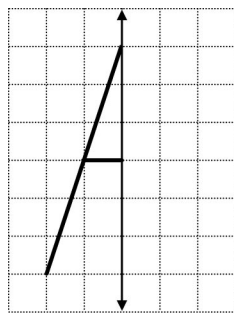**b)** ___ units _____

___ units _____

c) ____ units _____

____ unit _____

d) ____ units _____

____ units _____

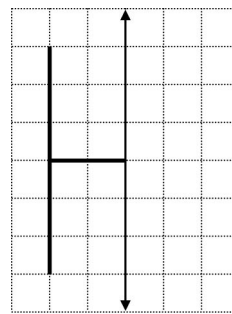**5. a)** Draw the reflection image on each grid to complete the figure.
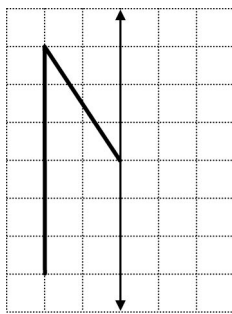
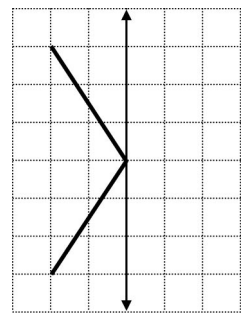Grid A   Grid B   Grid C   Grid D

b) Identify each figure.

Grid A _____   Grid B _____

Grid C _____   Grid D _____

c) Each of the letters has a vertical line of reflection. For which of the letters can you draw a horizontal line of reflection so that the letter reflects onto itself? _____

Draw these horizontal lines of reflection on the grids above.