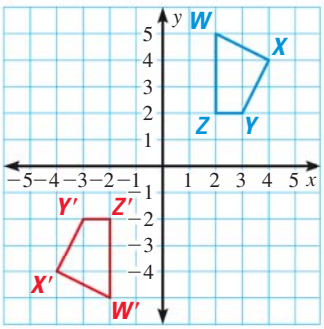
12 TAKS PRACTICE

PRACTICE FOR TAKS OBJECTIVE 6

1. Which transformation maps figure $WXYZ$ onto figure $W'X'Y'Z'$?



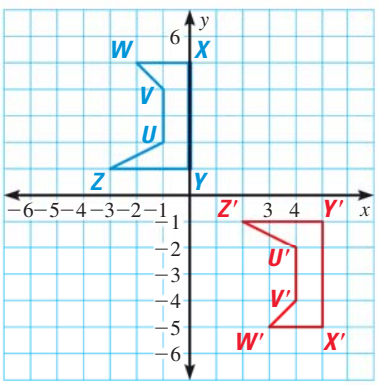
A A reflection in the y-axis

B A reflection in the line $y = -x$

C A 180° rotation about the origin

D A translation 6 units to the left and 7 units down

2. Which transformation(s) map(s) figure $UVWXYZ$ onto figure $U'V'W'X'Y'Z'$?



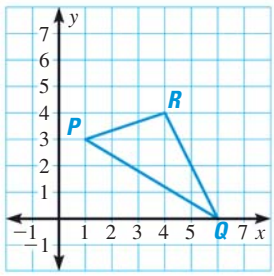
F A 180° rotation about the origin

G A reflection in the x-axis and then a reflection in the line $y = 1$

H A translation 5 units to the right and 6 units down

J A translation 5 units to the right and then a reflection in the x-axis

3. Which coordinates are the vertices of a triangle congruent to $\triangle PQR$?



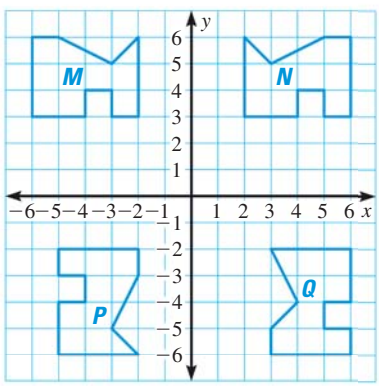
A $(-4, 9)$, $(-3, 6)$, and $(-6, 2)$

B $(-8, -2)$, $(-4, -6)$, and $(-7, -7)$

C $(3, -6)$, $(-1, -8)$, and $(2, -3)$

D $(6, -3)$, $(9, -3)$, and $(9, -8)$

4. Which of the polygons shown are congruent?



F Polygon M and polygon N

G Polygon M and polygon Q

H Polygon N and polygon P

J Polygon Q and polygon P

MIXED TAKS PRACTICE

5. Which two lines are perpendicular? *TAKS Obj. 7*

A $5x + 6y = 36$ and $-6x + 5y = -15$

B $3x + 4y = -5$ and $-3x + 2y = 14$

C $3x + 4y = -5$ and $3x - 4y = 6$

D $5x + 6y = 36$ and $5x + 6y = -18$