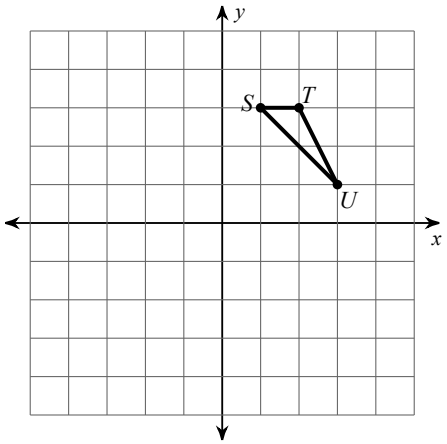
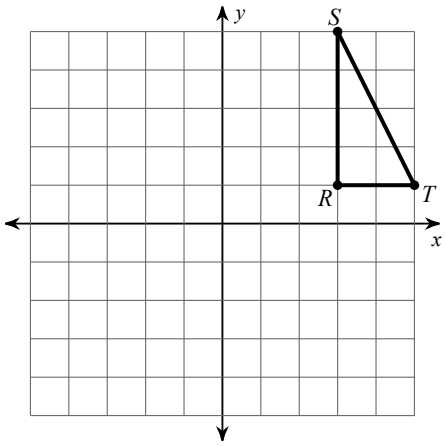
Math 1 - §11.3B Name_____

Graph the image of the figure using the transformation given.

1) rotation 180° about the origin

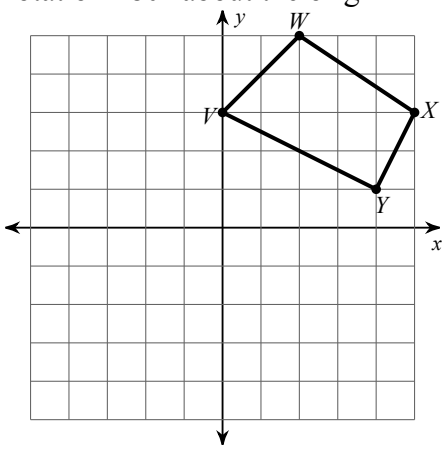


2) rotation 90° counterclockwise about the origin

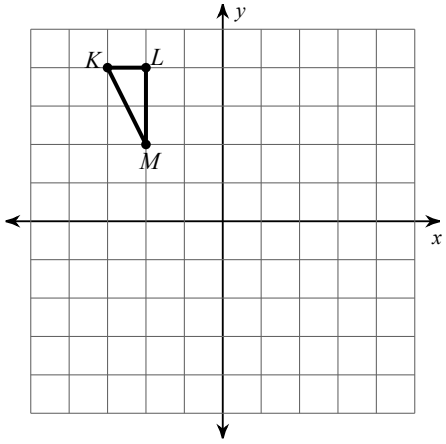


Find the coordinates of the vertices of each figure after the given transformation.

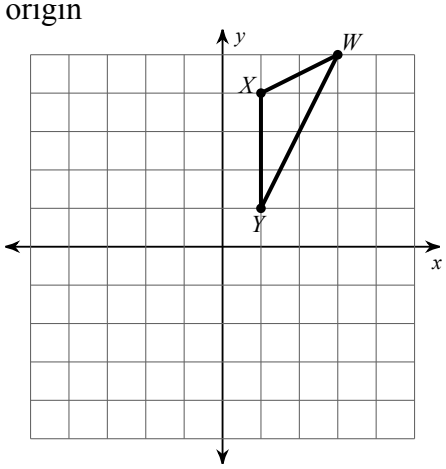
3) rotation 180° about the origin



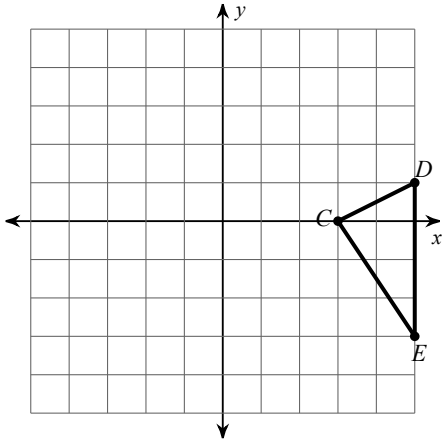
4) rotation 90° counterclockwise about the origin



5) rotation 90° counterclockwise about the origin



6) rotation 180° about the origin



Solve each equation.

7) $4 = \frac{k+7}{3}$

8) $\frac{n+6}{5} = 5$

9) $5 = \frac{-8+n}{2}$

10) $-8 = \frac{r}{3} - 4$

11) $-2 = 1 + \frac{p}{6}$

12) $-1 = 9 + \frac{x}{2}$

13) $1 = \frac{k+7}{26}$

14) $\frac{3+x}{8} = -2$

15) $5 = 9 + \frac{m}{2}$

16) $5 = \frac{n-10}{2}$

17) $4(3+5x) = 152$

18) $4(x-3) + 7x = -89$

19) $7(-3-5p) - 3p = 93$

20) $-7(2a+4) = -98$

21) $81 = 3(1-3p) + 6$

22) $-3(-5+5x) = 90$

23) $-7(6x+8) = -350$

24) $-114 = -5(4+6v) - 4$

25) $-5(3+a) = -95$

26) $-3(-4+p) = -24$