

Reflections

Over y-axis	Over x-axis	Over y=x
$(x,y) \rightarrow$ _____	$(x,y) \rightarrow$ _____	$(x,y) \rightarrow$ _____
P(2,2) \rightarrow P' _____ Q(3,-2) \rightarrow Q' _____ R(-3,-1) \rightarrow R' _____	L(3,3) \rightarrow L' _____ M(3, -4) \rightarrow M' _____ N(-1,-4) \rightarrow N' _____	A(-2,1) \rightarrow A' _____ B(2,-2) \rightarrow B' _____ C(-3,-4) \rightarrow C' _____

Translations

Dilations

Along a vector $\langle a,b \rangle$	Centered at Origin, with scale factor of k
$(x,y) \rightarrow$ _____	$(x,y) \rightarrow$ _____
D(1,2) \rightarrow D' _____ E(-2,1) \rightarrow E' _____ F(-3,-1) \rightarrow F' _____; $\langle -1,-3 \rangle$	R(2,3) \rightarrow R' _____ S(0,0) \rightarrow S' _____ T(2,0) \rightarrow T' _____; $r = 2$

Rotations

90° Rotation	180° Rotation	270° Rotation
$(x,y) \rightarrow$ _____	$(x,y) \rightarrow$ _____	$(x,y) \rightarrow$ _____
$K(4,2) \rightarrow K' \underline{\hspace{1cm}}$ $L(1,3) \rightarrow L' \underline{\hspace{1cm}}$ $M(2,1) \rightarrow M' \underline{\hspace{1cm}}$	$F(-3,3) \rightarrow F' \underline{\hspace{1cm}}$ $G(2,4) \rightarrow G' \underline{\hspace{1cm}}$ $H(-1,-1) \rightarrow H' \underline{\hspace{1cm}}$	$J(3,-7) \rightarrow J' \underline{\hspace{1cm}}$ $K(1,-1) \rightarrow K' \underline{\hspace{1cm}}$ $L(5,-3) \rightarrow L' \underline{\hspace{1cm}}$
		