

REFLECTION RULE SUMMARY	ROTATION RULE SUMMARY
$r_{y \text{ axis}}(x, y) = (-x, y)$	$R_{O, 90^\circ}(x, y) = (-y, x)$
$r_{x \text{ axis}}(x, y) = (x, -y)$	$R_{O, 180^\circ}(x, y) = (-x, -y)$
$r_{y=x}(x, y) = (y, x)$	$R_{O, 270^\circ}(x, y) = (y, -x)$

  

a)  $R_{O, 90^\circ}(-6, 4) = (-4, -6)$

b)  $r_{x=0}(-3, -5) = (3, -5)$

c)  $R_{O, 270^\circ}(4, -3) = (-3, -4)$

d)  $r_{x \text{ axis}}(7, -8) = (7, 8)$

e)  $r_{y \text{ axis}}(-8, 4) = (8, 4)$

f)  $R_{O, -270^\circ}^{cw}(-5, -8) = (8, -5)$   
 $R_{90^\circ}^{ccw}$

g)  $r_{x \text{ axis}}(2, 8) = (2, -8)$

h)  $R_{O, 180^\circ}(0, -9) = (0, 9)$

i)  $r_{x \text{ axis}}(3, 5) = (3, -5)$

j)  $R_{O, 180^\circ}(-4, 2) = (4, -2)$

k)  $r_{y \text{ axis}}(4, 2) = (-4, 2)$

l)  $r_{y \text{ axis}}(-2, 15) = (2, 15)$

m)  $R_{O, 90^\circ}(-3, -9) = (9, -3)$

n)  $R_{O, -90^\circ}^{R_{270}}(10, 3) = (3, -10)$