

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

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

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

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

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

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

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

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

b) $r_{y \text{ axis}}(-3, -5) = (\underline{3}, \underline{-5})$
 $y\text{-axis}$

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

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

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

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

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

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