

# 5-1 Symmetry

Name \_\_\_\_\_

Determine whether the graph of the relation is symmetric with respect to each specified point or line.

**Show your work and circle the ones for which it is symmetric.**

**Remember**

origin =  $(-x, -y)$

x-axis =  $(x, -y)$

y-axis =  $(-x, y)$

$y = x$  :  $(y, x)$

$y = -x$ :  $(-y, -x)$

1.  $xy = 3$

origin

x-axis

y-axis

$y=x$

$y=-x$

2.  $y = x - 5$

origin

x-axis

y-axis

$y=x$

$y=-x$

3.  $x^2 + 4y^2 = 6$

origin

x-axis

y-axis

$y=x$

$y=-x$