

## Reflections and Translations Worksheet

Directions: Show your work for each question on a SEPARATE PIECE OF PAPER.

Reflect each coordinate over the following equations and state the new coordinates

	$Y = -4$	$X = -7$	$X = 2$	$Y = 1$	$Y = x$	$Y = -x$	Point (3,-7)
Coordinates							
(-7, 5)							
(2, -11)							
(-6, -5)							
(3, 8)							

1. A certain translation  $T$  maps  $D(-12, 7)$  onto  $D'(4, -2)$ . Find the coordinate of  $B$ , the pre-image of  $B'(-8, 6)$  after the same translation.
2. The image of the origin under a certain translation is the point  $(2, -6)$ . What is the image of point  $(-3, -2)$  under the same translation?
3. Find the rule that maps  $C(-5, 13)$  onto  $C'(9, -2)$ .
4. What is the coordinate of the point  $(-2, 7)$  under the translation with a rule of  $(x-5, y+3)$ ?

