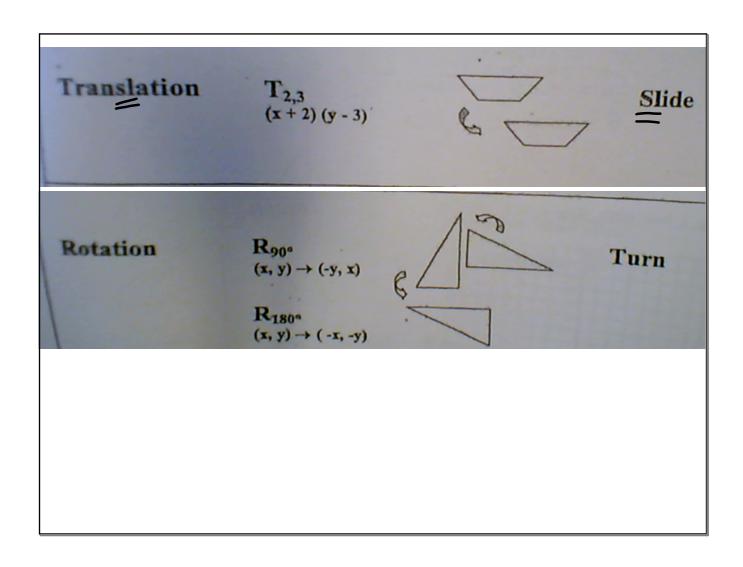
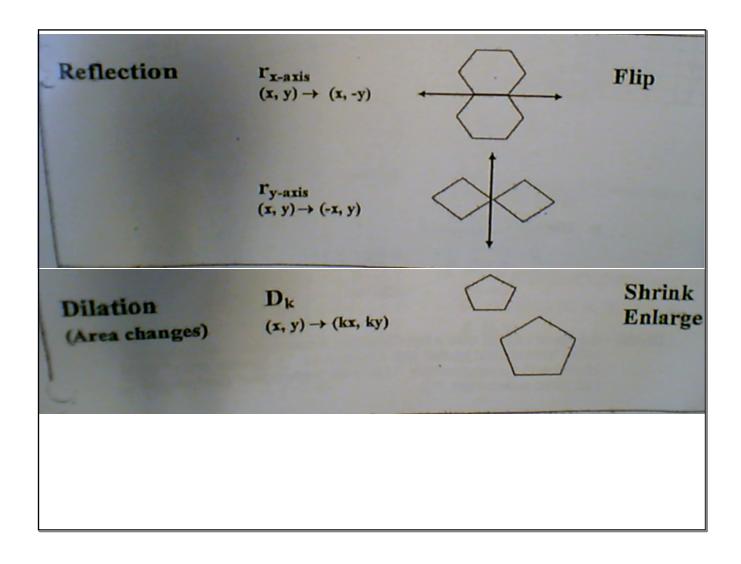
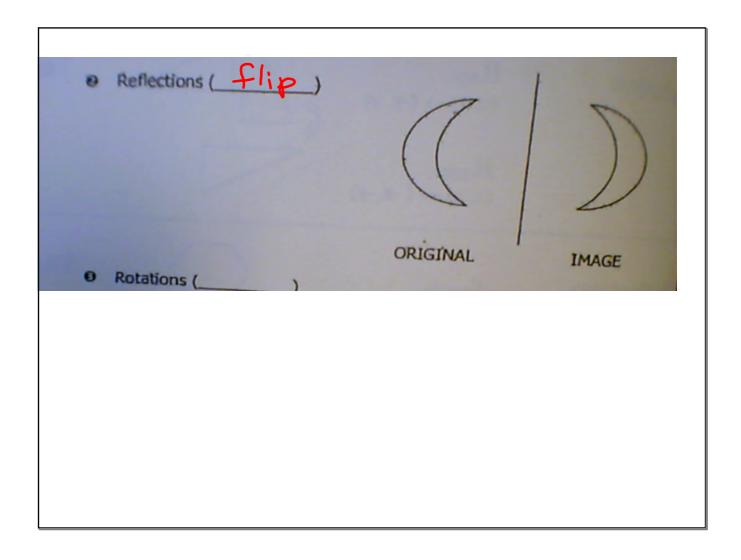
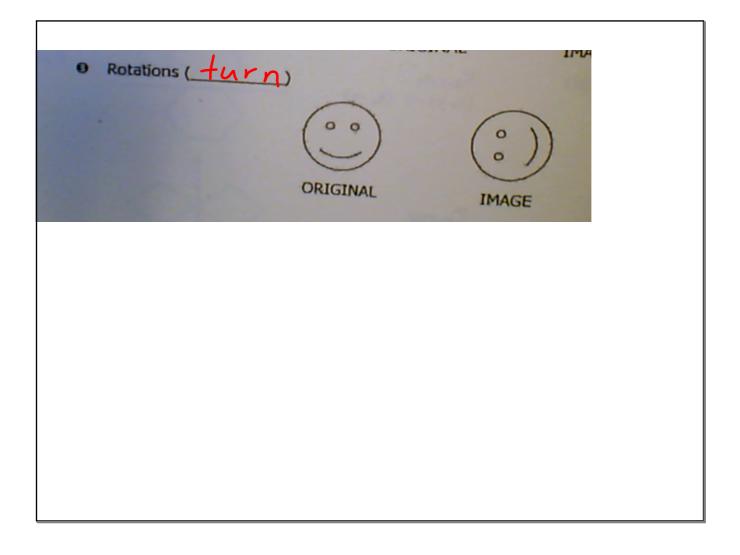
- 1) Bell Ringer: p. 3
- 2) Lesson 1: What is a transformation? What is a slide?
- 3) Homework: pages 7-8

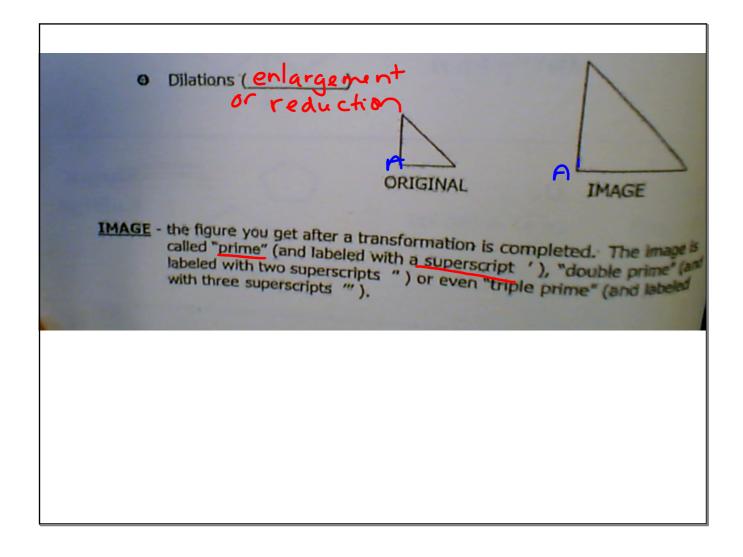


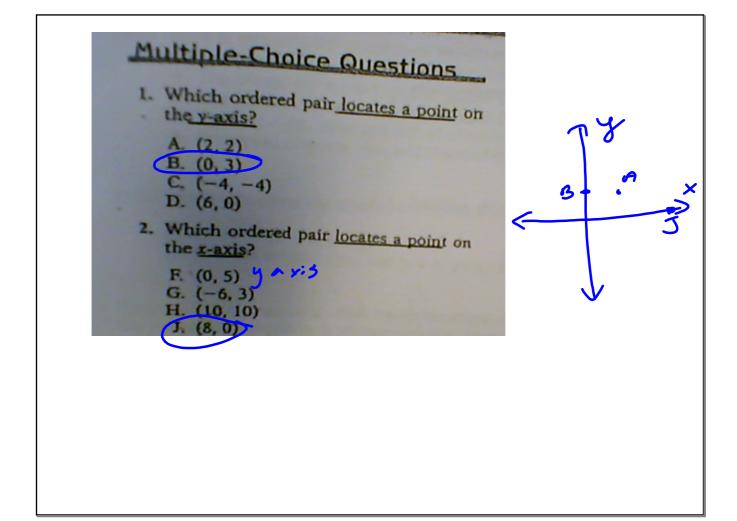


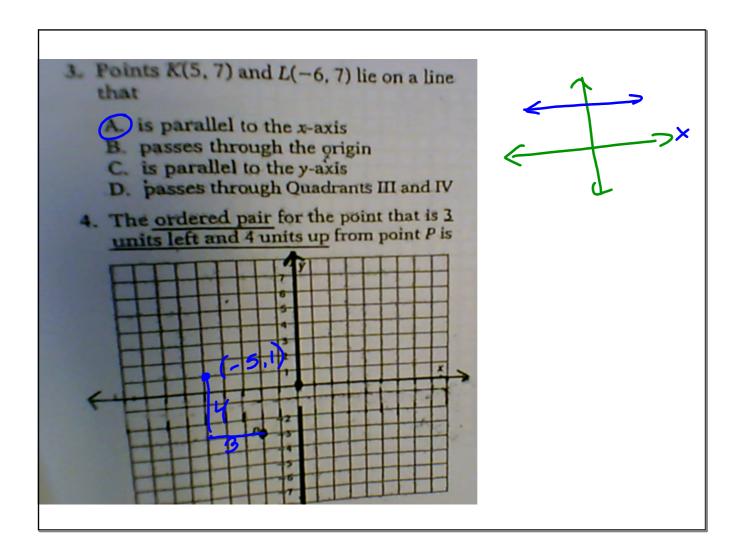
TRANSFORMATIONS	
Transformation is a change in	ientation of a figure.
o Translations (5/1de).	E. Car
A	IMAGE
ORIGINA	L

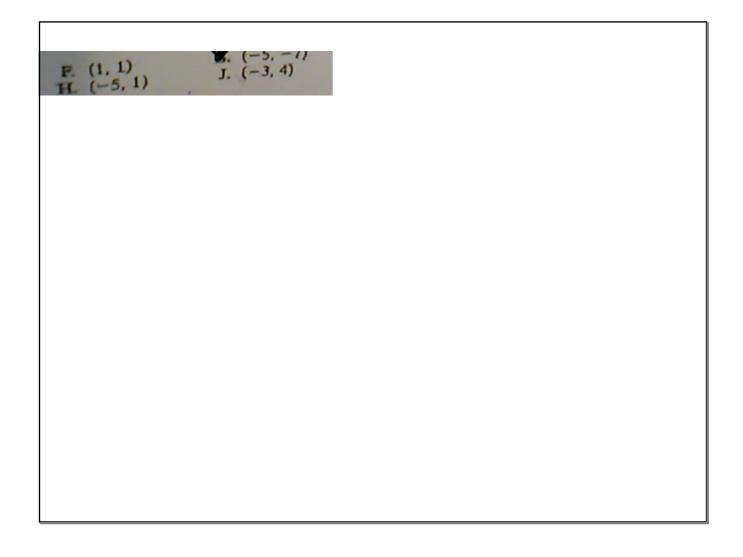






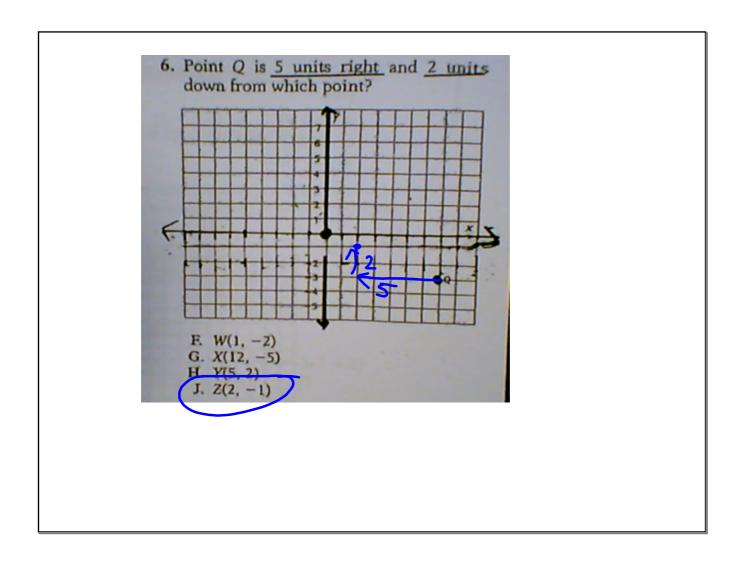






5. Which set of points is on a line perpendicular to the x-axis?

P(3, 6), Q(-2, -4), R(0, 0)B. S(6, -9), T(6, 11), U(6, 4)C. V(4, 8), W(-7, 8), X(0, 8)D. K(10, 5), L(-4, -2), M(8, 4)

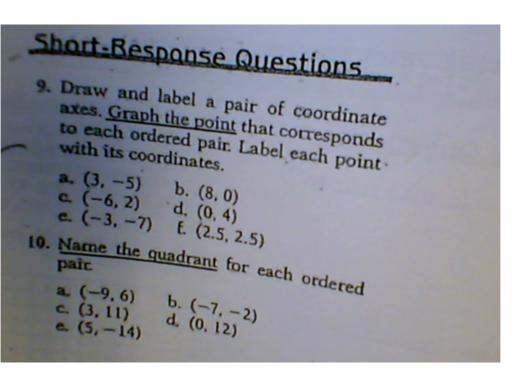


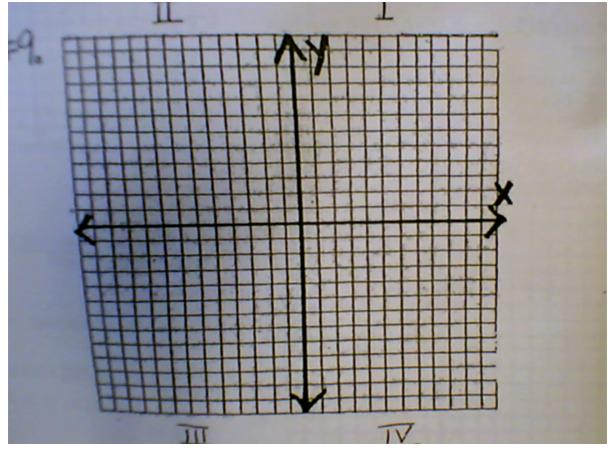
7. Which point does NOT lie on either the x-axis or the y-axis?

A. L(0, 13)
B. M(-17, 0)
C. N(-15, 15)
D. O(0, 0)

8. Which ordered pair comes next in the pattern?
(2, -1), (3, 1), (4, 3), (5, 5), (?, ?)

F. (6, 6)
G. (6, 7)
H. (7, 6)
J. (7, 8)





TRANSLATIONS are defined as a Side in the coordinate plane. The entire figure is moved (slid) in the same direction the same amount of spaces.

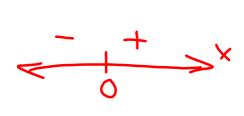
- → The shape can move in one direction up, down, left, or right.
- → The shape can move in a combination of two directions -- up and left, up and right, down and left, or down and right.
- → Preserves distance, size, and shape of the figure.

In the coordinate plane the algebraic formula is shown by

$$(x, y) \longrightarrow (x + a, y + b)$$

 $(x, y) \longrightarrow (x + a, y + b)$ (x, y) is the original point and (x + a, y + b) is the image point.

The x-value is change by a which moves the shape right (positive) or left (negative). The y-value is changed by b which moves the shape up (positive) or down (negative).





Use the following rule: 
$$(x, y) \longrightarrow (x - 3, y + 2)$$
 to translate the following points: The point moves (slides) 3 to the left and 2 up.

1) A  $(5, -3)$ 

A  $(5, -3) \longrightarrow A'(5 - 3, -3 + 2)$ 

A  $(5, -3) \longrightarrow A'(2, -1)$ 

B  $(-4, 7) \longrightarrow B'(-4 - 3, 7 + 2)$ 

B  $(-4, 7) \longrightarrow B'(-7, 9)$ 

3) C  $(2, 5)$ 

4) D  $(3, -2)$ 

-3, +2

C'(-1, 7)

5) E  $(1, -6)$ 

C  $(-2, -4)$ 

6) F  $(-3, 8)$ 

-3, +2

F  $(-6, 10)$ 

