

1) When rotating a figure, what essential information do you need to know?

2) When translating a figure, what essential information do you need to know?

3) When reflecting a figure, what essential information do you need to know?

**Find the *slope* between each pair of points. Then, using the Pythagorean Theorem, find the *distance* between each pair of points. Distances should be provided in the most exact form.**

4.  $(-3, -2), (0, 0)$

a. Slope:

b. Distance:

5.  $(7, -1), (11, 7)$

a. Slope:

b. Distance:

6.  $(-10, 13), (-5, 1)$

a. Slope:

b. Distance:

7.  $(-6, -3), (3, 1)$

a. Slope:

b. Distance:

8.  $(5, 22), (17, 28)$

a. Slope:

b. Distance:

9.  $(1, -7), (6, 5)$

a. Slope:

b. Distance: