Warm Up:

(-6,0)

Solve the following system:

$$(3x + 2y = -18)^2$$
 $(x + 4y = -36)$
 $(2x + 9y = -12)^{-3}$ $(-6/x - 27y = 36)$
 $(-23y = 0)$
 $(-23y = 0)$

6.2 - Composition of Transformations

What are the three different rigid transformations?

What is a composition of transformations?				
When more than one transformation occurs.				

Investigation 6.2 on sketchpad

Reflections across Parallel Lines Conjecture: a composition of two reflections across two parallel lines is equivalent to a single translation. In addition, the distance from any point to its second image under the two reflections is twice the distance between the parallel lines.

Reflections across Intersecting Lines Conjecture: A composition of two reflections across a pair of intersecting lines is equivalent to a single rotation. The angle of rotation is twice the acute angle between the pair of intersecting reflection lines.

Glide Reflection: A special two-step transformation combining a with a