Bellwork 02/21/2012

Multiply the matrices.

1.
$$\begin{bmatrix} 1 & -2 & 3 \end{bmatrix} \begin{bmatrix} 0 & -1 \\ -4 & 2 \\ -3 & 1 \end{bmatrix}$$

$$\begin{array}{c}
 1(0) + -2(-4) + 3(-3) \\
 0 + 8 + -9
 \end{array}$$

$$\begin{array}{c}
 1(-1) + -2(2) + \\
 -1 + -4 + 3 & 3(1)
 \end{array}$$

Lesson 9.1

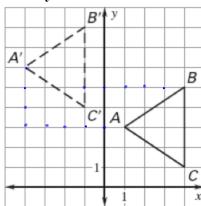
Use the translation $(x, y) \rightarrow (x + 6, y - 3)$.

What is the image of B(-4, 1)? 1.

B' (-4+6,1-3) B' (2,-2)

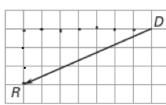
What is the preimage of C'(2, -7)? (x - 6, y + 3) C(2-6, -7+3) C(-4, -4)

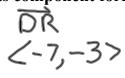
A'B'C is the image of ABC after a translation. Write a rule for the translation. Then verify that the translation is an isometry.



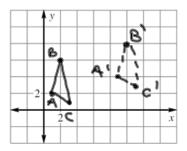
 $(x,y) \rightarrow (x-5,y+3)$

Name the vector and write its component form.





The vertices of ABC are A(1, 2), B(2, 6), and C(3, 1). Translate ABC using the given vector. Graph ABC and its image.



Lesson 9.2

6.
$$\begin{bmatrix} -1 & -9 \\ 0 & 2 \end{bmatrix} + \begin{bmatrix} -5 & -9 \\ +6 & +7 \end{bmatrix}$$

$$\begin{bmatrix} -6 & -18 \\ 6 & 9 \end{bmatrix}$$

$$\begin{bmatrix} -3 & 2 & 6 \end{bmatrix} \begin{bmatrix} -5 \\ 0 \\ -3 \end{bmatrix} 1 \times 1$$

$$\begin{bmatrix} -9 \\ 2 \end{bmatrix} + \begin{bmatrix} -5 & -9 \\ +6 & +7 \end{bmatrix}$$

$$\begin{bmatrix} 7 & 5 & -2 \\ 2 & 4 \\ -7 & 2 \end{bmatrix} + \begin{bmatrix} 1 & 3 \\ 6 & -4 \\ 6 & -1 \end{bmatrix}$$

$$\begin{bmatrix} 6 & 7 \\ 8 & 9 \\ -1 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 6 & 7 \\ 8 & 9 \\ -1 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 6 & 7 \\ 8 & 9 \\ 1 & 0 & 3 \end{bmatrix}$$

$$\begin{bmatrix} -10 \\ 7 & 1 \end{bmatrix}$$

Homework Assignment

Pg. 912 #1-11

Pg. 585 #18-23

Quest 9.1-9.2 Tomorrow!