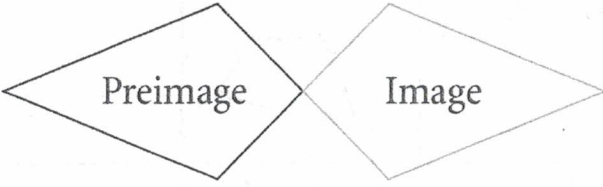
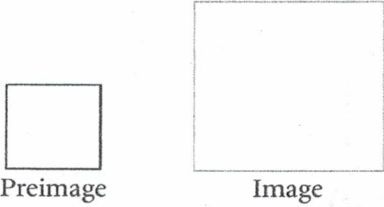
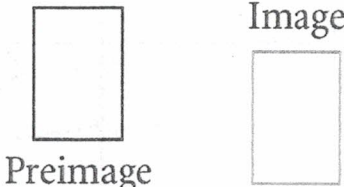
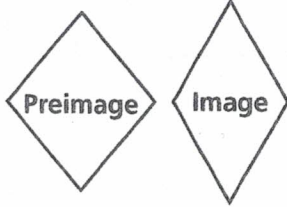
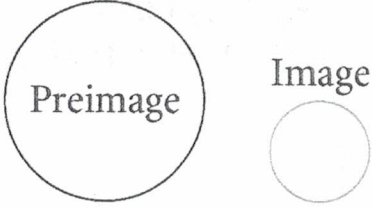
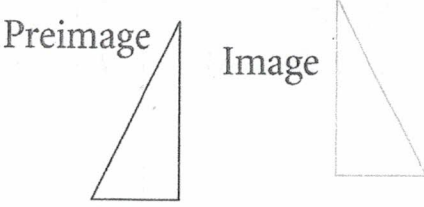


I. Determine whether given transformation has rigid motion. If not, explain why.

<p>1.) rigid motion → Yes No If no, explain: _____</p> 	<p>2.) rigid motion → Yes No If no, explain: _____</p> 
<p>3.) rigid motion → Yes No If no, explain: _____</p> 	<p>4.) rigid motion → Yes No If no, explain: _____</p> 
<p>5.) rigid motion → Yes No If no, explain: _____</p> 	<p>6.) rigid motion → Yes No If no, explain: _____</p> 

II a.) In the diagram, point F is the preimage. Determine the image that is described by the vector.

7.) $\langle -1, 4 \rangle \rightarrow$ _____ 8.) $\langle 4, -1 \rangle \rightarrow$ _____

9.) $\langle 4, 1 \rangle \rightarrow$ _____ 10.) $\langle 1, 4 \rangle \rightarrow$ _____

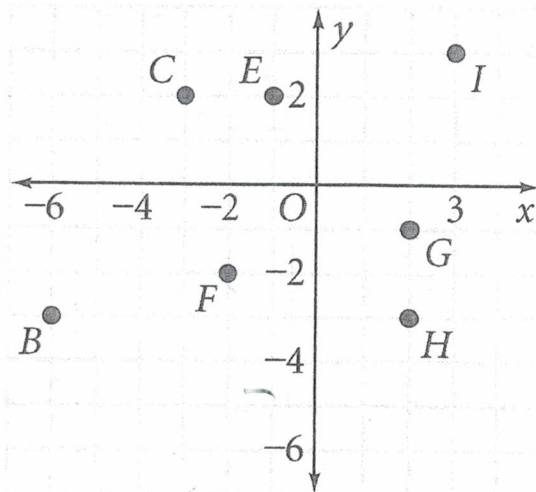
11.) $\langle 5, 5 \rangle \rightarrow$ _____ 12.) $\langle -4, -1 \rangle \rightarrow$ _____

b.) Describe the vector of each translation.

13.) G to H → vector = _____

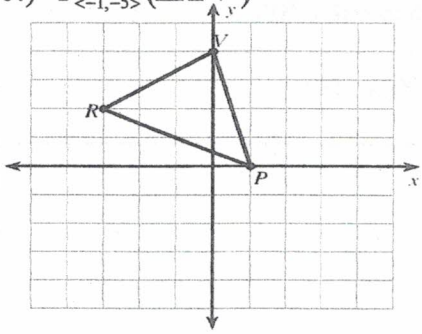
14.) B to I → vector = _____

15.) I to C → vector = _____

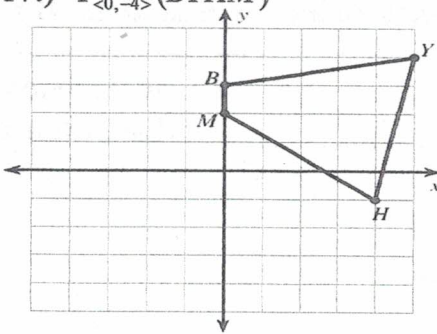


III. Graph the image of the figure using the given transformation.

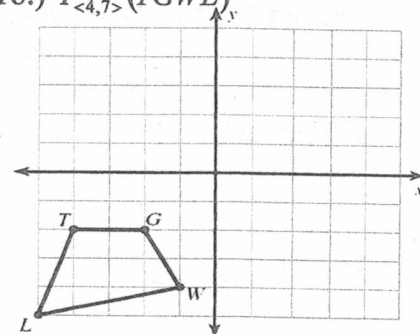
16.) $T_{\langle -1, -5 \rangle}(\triangle RPV)$



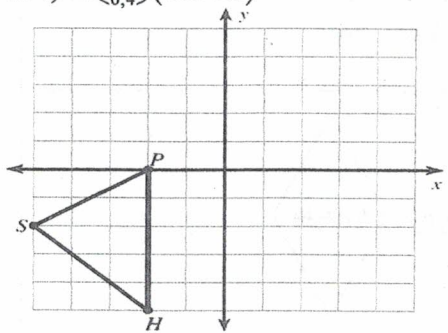
17.) $T_{\langle 0, -4 \rangle}(\triangle BYHM)$



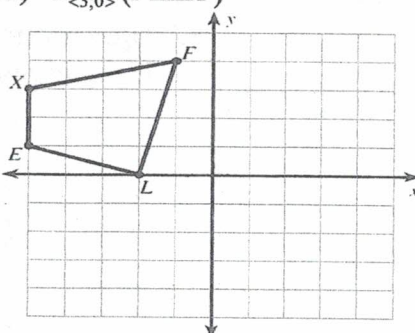
18.) $T_{\langle 4, 7 \rangle}(\triangle TGL)$



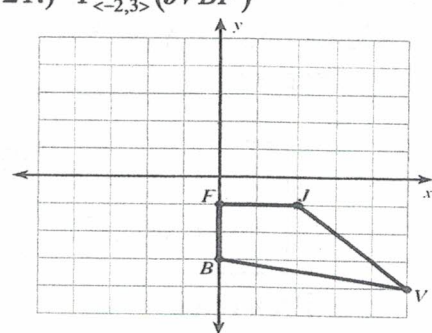
19.) $T_{\langle 6, 4 \rangle}(\triangle SPH)$



20.) $T_{\langle 3, 0 \rangle}(\triangle FLEX)$



21.) $T_{\langle -2, 3 \rangle}(\triangle JVB)$



IV. Find the coordinates of each figure by doing translations algebraically with tables.

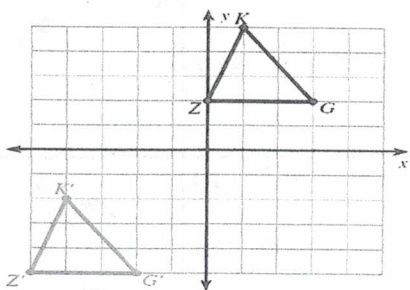
22.) $T_{\langle 2, -6 \rangle}(\triangle JLE)$ for
 $J(-3, -5), L(-3, -3), E(0, -5)$

23.) $T_{\langle -5, -3 \rangle}(\triangle EWT)$ for
 $E(-5, 1), W(-3, 4), T(-2, -1)$

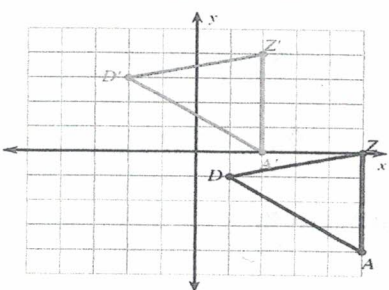
24.) $T_{\langle -4, 2 \rangle}(\triangle ZPAW)$
 $Z(-5, -2), P(-4, 1), A(-3, 0), W(-2, -4)$

V. Determine the vector that describes each translation.

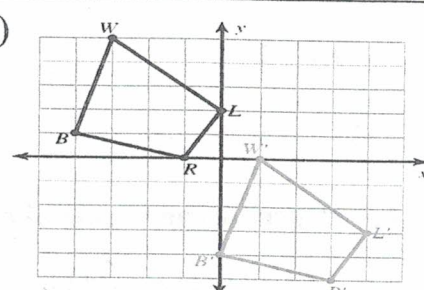
25.)



26.)



27.)



28.) $Q(-5, 1), H(-3, 5), F(-1, 4)$
 to
 $Q'(-1, 0), H'(1, 4), F'(3, 3)$

29.) $R(-1, 2), A(-2, 3), F(2, 5), W(4, 4)$
 to
 $R'(-4, -5), A'(-5, -4), F'(-1, -2), W'(1, -3)$

30.) $U(-4, 4), N(-2, 5), K(-3, 3)$
 to
 $U'(3, -4), N'(5, -3), K'(4, -5)$