

Homework 2.4 – Verifying Figures

Date: _____

1. Show that the line segment joining points $P(1,4)$ and $Q(5,5)$ is parallel to the line segment joining points $R(3, -4)$ and $S(7, -3)$.
2. Show that TU , $T(-1,7)$ and $U(3,5)$, is perpendicular to VW , $V(-4,1)$ and $W(-1,7)$.
3. Prove what type of triangle is formed by $J(2,5)$, $K(5, -2)$, and $L(-1, -2)$.

4. Show that triangle ABC is a right scalene triangle with points $A(-2,2)$, $B(-1,-2)$, and $C(7,0)$.

5. A polygon is defined by points $A(-5,1)$, $B(5,3)$, $C(2,-1)$, and $D(-8,-3)$. Show that the polygon is a parallelogram.

6. Determine the type of quadrilateral described by $P(-5,1)$, $Q(3,3)$, $R(4,-1)$, and $S(-4,-3)$.