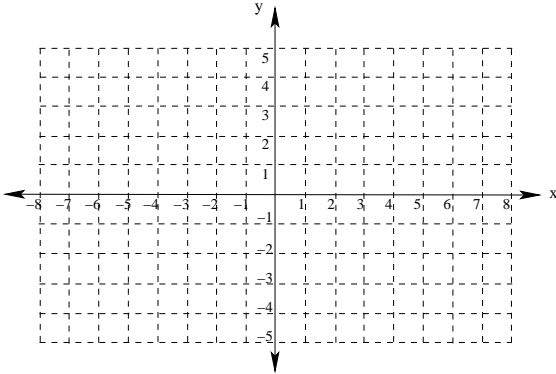


Instructions: Work the following problems in groups of 3-4 students. You will have about 20 minutes to complete the problems on this worksheet before we come back together to discuss them.

Given the points $P : (2, -3)$, $Q : (-4, 5)$, $R : (0, -3)$, $S : (2, 0)$

1. Graph P, Q, R , and S on the axes provided



2. Find $d(P, Q)$
3. Find the equation for a circle with center P and passing through the point Q .
4. Find the coordinates of the midpoint M of \overline{PQ} and graph it on the axes above.
5. Find the Perimeter of $\triangle PRS$.
6. Find the Area of $\triangle PRS$.