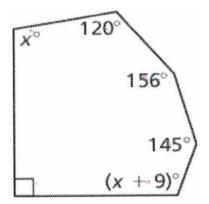
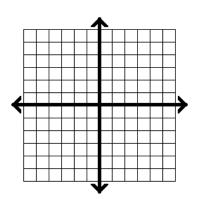
- 1.) Given a pentadecagon, find;
 - a.) the sum of the interior angles;
 - b.) the sum of the exterior angles;
 - c.) the measure of each interior angle if the polygon is regular.
- 2.) You are given two regular polygons, a pentagon and a heptagon. If one exterior angle is chosen form each, which of these regular polygons has the larger exterior angle? How much larger is the angle? Briefly explain and show your work!
- 3.) A decagon has three angles with measures of 54° and two other angles with measures of 125°. Find the measure of any one of the remaining angles if they are all congruent to each other.
- 4.) Find the value of x in the diagram below.

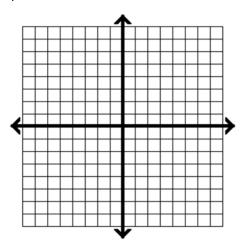


- 5.) Three vertices of $\square JKLM$ are J(-2,-1),K(0,2), and L(4,3).
 - a.) Find the coordinates of the fourth vertex M.
 - b.) Find the coordinates of the intersection of the diagonals of $\square JKLM$.

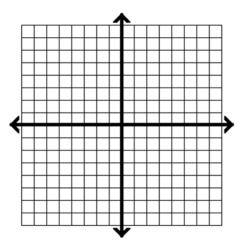


Find the most descriptive name for each quadrilateral below. You must show your work and explain!

6.) Quadrilateral ABCD with vertices: A(-4,1) B(0,4) C(4,0) D(-4,-6) .



7.) Quadrilateral *EFGH* with vertices: E(-4,1) F(-5,6) G(0,5) H(1,0) .



8.) Quadrilateral NPRS with vertices: N(-4,0) P(-2,3) R(4,-2) S(2,-5).

