







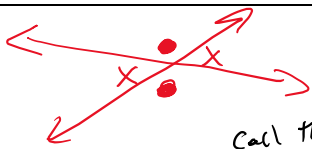

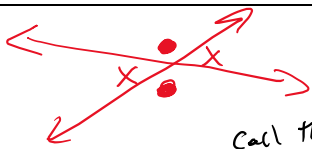

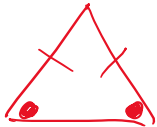






Geometric Properties

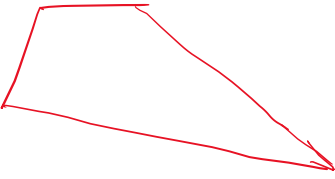




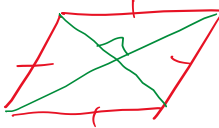
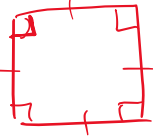
Angle Properties

<p>Acute an angle $< 90^\circ$</p> 	<p>Straight = 180°</p> 	<p>Angles at a point angles add to 360°</p> <p>$\angle 1 + \angle 2 + \angle 3 = 360^\circ$</p> 
<p>Obtuse angle $> 90^\circ$ but $< 180^\circ$</p> 	<p>Complimentary 2 angles that add to 90°</p> <p>$\angle 1 + \angle 2 = 90^\circ$</p> 	<p>Angles on a line more than 2 angles that add to 180°</p> <p>$\angle 1 + \angle 2 + \angle 3 + \angle 4 = 180^\circ$</p> 
<p>Right = 90°</p> 	<p>Supplementary 2 angles that add to 180°</p> <p>$\angle 1 + \angle 2 = 180^\circ$</p> 	<p>Vertically opposite angles angles that are across from each other when two lines cross. Are equal to each other</p> 
<p>Perpendicular two lines that cross at 90°</p> 		<p>call them X-angles</p> 

Triangle Properties

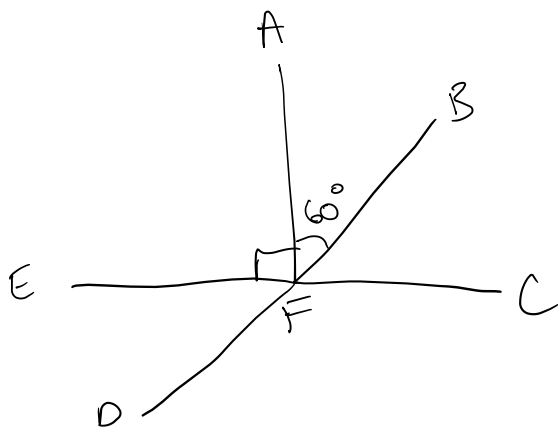
<p>Scalene - all side lengths are different all angles are different</p> 	<p>Isosceles - two sides are equal - two angles are equal</p> 	<p>Equilateral - all sides are equal all angles are equal (60°)</p> 
<p>Acute Triangle - all angles are less than 90°</p> 	<p>Obtuse Triangle - one angle is more than 90° less than 180°</p> 	<p>Right Triangle - has one angle that is 90°</p> 
<p>Angle Sum - all angles in a triangle add to 180°</p>		

Quadrilateral Properties

<p>Quadrilateral - shape with 4 sides - all angles add to 360°</p> 	<p>Trapezoid - one set of parallel lines</p>   <p>"isosceles trapezoid"</p>	<p>Parallelogram</p> <ul style="list-style-type: none"> - two sets of parallel lines - diagonals bisect each other - two sets of equal lengths - opposite vertices are equal 
<p>Rectangle</p> <ul style="list-style-type: none"> - same as parallelogram - all angles are 90° 	<p>Rhombus</p> <ul style="list-style-type: none"> - same as parallelogram - all sides are equal - diagonals bisect at 90° 	<p>Square</p> <ul style="list-style-type: none"> - same as rhombus - all angles are 90° 

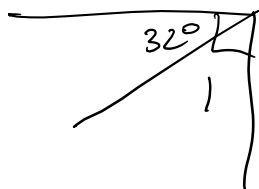
Congruent - same shape and size

similar - same shape but different size



3 acute \angle s $\angle AFB, \angle BFC, \angle EFD$

4.a)



$$\angle 1 = 90 - 32$$

58°