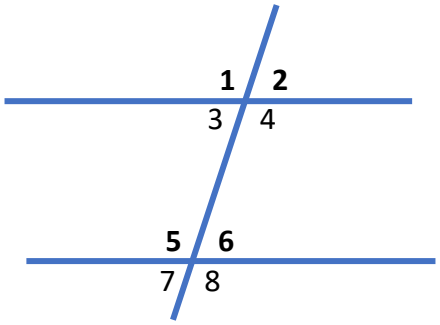
Parallel Practice Test Name_____

Angles: ll lines and polygons Date_____

1. ***Name a pair of the following angles and identify their relationship
   a) Corresponding ∠**s**
   b) Alternate Interior ∠**s**
   c) Alternate Exterior ∠**s**
   d) Same Side Interior ∠**s**



2. ***State the Triangle Sum Theorem

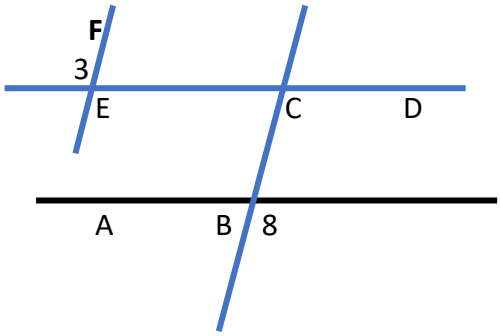
3. ***State the Exterior Angle of Triangle Theorem

4. *** Define “Regular Polygon”

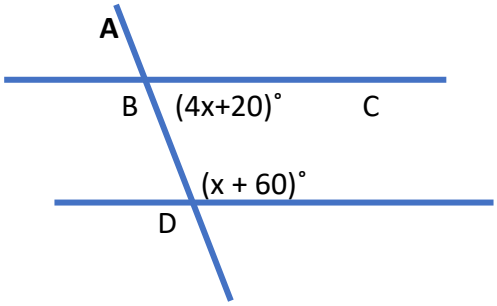
5. ***The sum of the interior angles of a convex polygon is given by _____

6. ***The sum of the exterior angles of a convex polygon is _____

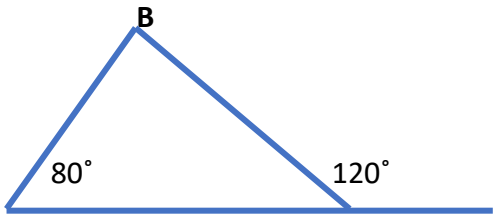
7. **If $m\angle 8 = 110^\circ$, find $m\angle 3$



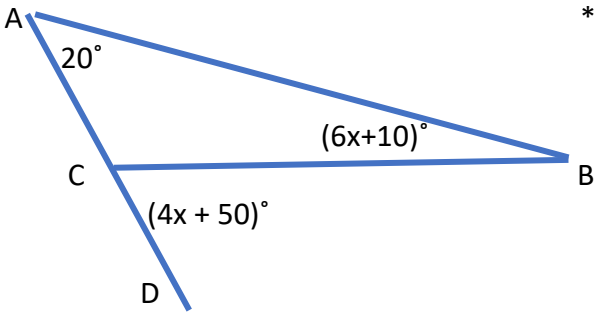
8. **Find the $m\angle$**DBC**



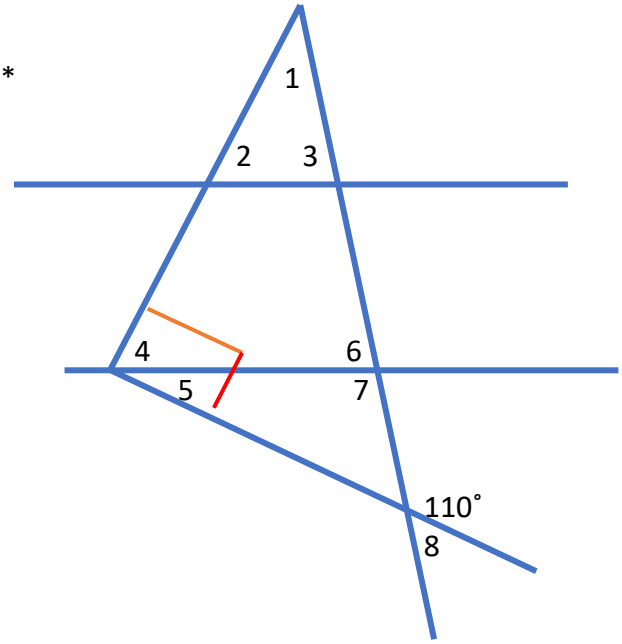
9. **Find the $m\angle$**B**



10. **Find the m$\angle$**BCD**



11. ** Find the value of angles 1 - 8



12. **In a convex octagon, find the sum of the measures of the interior angles.

13. **In a regular pentagon, find the measure of EACH interior angle.

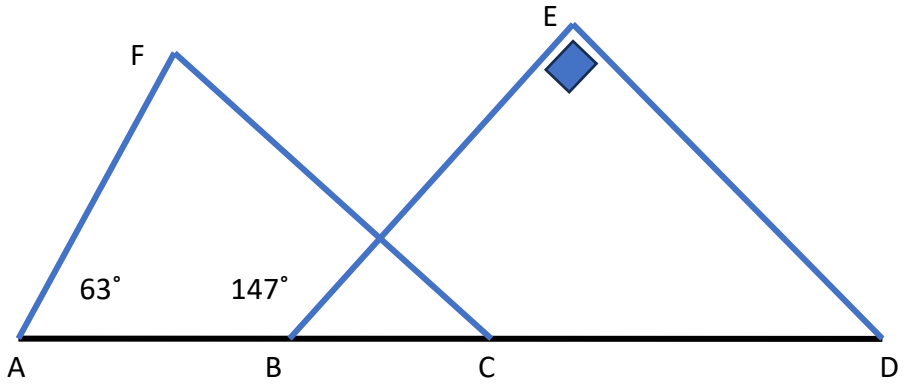
14. **In a regular polygon, if the measure of an interior angles measure 150˚, how many sides does it have?

15. *Prove: If 2 II lines are cut by a transversal, the alternate interior angles are congruent.

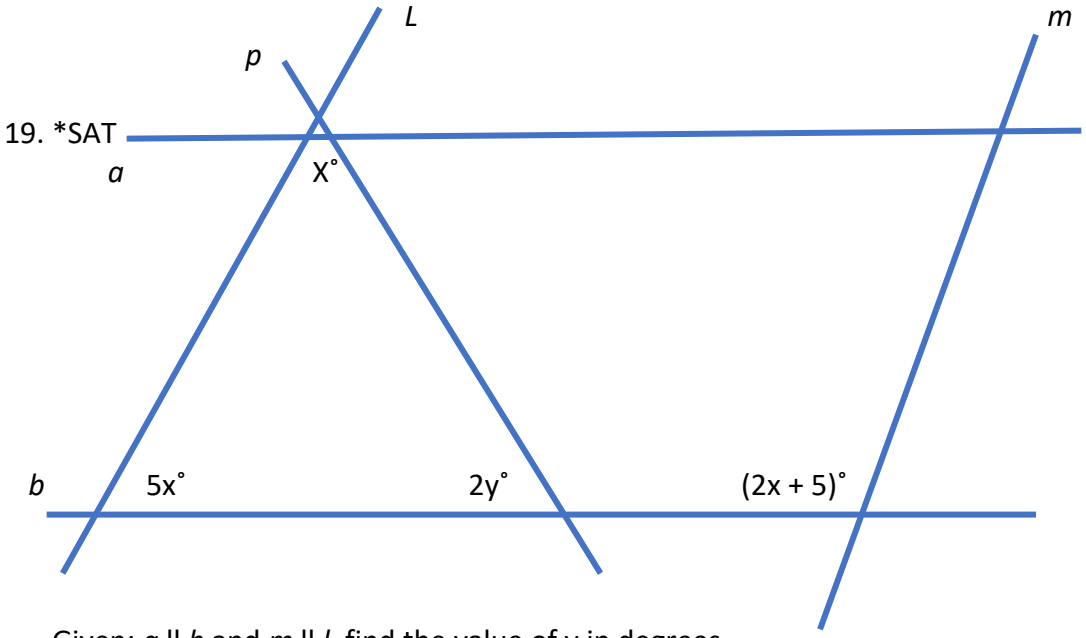
16. *Prove: The sum of the interior angles of triangle measures 180˚

17. * Prove: The exterior angle of a triangle equals the sum of the two remote interior ∠ angles.

18. *ACT In the figure below, A, B, C, and D are collinear. $\overline{FC}$ ll $\overline{ED}$, $\overline{BE} \perp \overline{ED}$ and the measures of the angles are as marked. Find $m\angle \mathrm{FCB}$



19. *SAT



Given: *a* ll *b* and *m* ll *l,* find the value of y in degrees.

20 . ***Write a home phone, cell phone, email or home address to contact parents or guardians (CHP).