

Unit 5: Angles and Parallel Lines

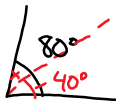
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5.1: Measuring, Drawing, and Estimating Angles

- 5 different types of angles
 1. Acute (less than 90°)
 2. Right (90°)
 3. Obtuse (between 90° and 180°)
 4. Straight (180°)
 5. Reflex (between 180° and 360°)
- **Complementary angles:** 2 angles that add up to 90°
 - o Complementary = corner
- **Supplementary angles:** 2 angles that add up to 180°
 - o Supplementary = straight line
- True Bearing: compass reading read as an angle clockwise from North.

5.2: Angle Bisectors and Perpendicular Lines

- **Bisect** = cut into two equal pieces

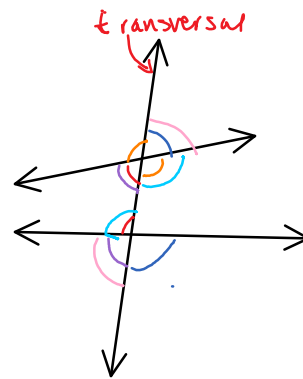


- **Perpendicular Lines** = two lines that meet at a 90° angle.



5.3: Non-Parallel Lines and Transversals

- **Transversal** = line that passes through 2 or more lines
- Know the following angle pair relationships
 1. Interior Angles ** inside lines; same side of transversal*
 2. Exterior Angles ** outside lines; same side of transversal*
 3. Opposite Angles (vertically opposite) ** across intersection*
 4. Corresponding Angles ** being in same spot of intersection*
 5. Alternate Interior Angles ** off sides of trans, inside lines*
 6. Alternate Exterior Angles ** off side of trans, outside lines*



5.4 Parallel Lines and Transversals

- If a transversal crosses parallel lines, know that:
 1. Interior Angles are supplementary *add to 180°*
 2. Exterior Angles are supplementary
 3. Opposite Angles (vertically opposite) are equal
 4. Corresponding Angles are equal
 5. Alternate Interior Angles are equal
 6. Alternate Exterior Angles are equal

