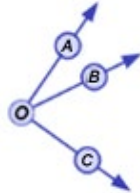# Vocabulary: Investigating Angle Theorems

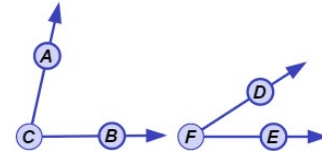📖 **Vocabulary**

- Complementary Angles – two angles whose measures add to _____ degrees.
    - ○ Complementary angles can be *adjacent* or *nonadjacent*.
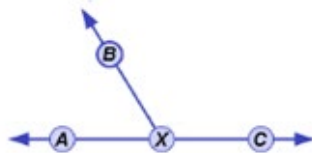

Adjacent complementary angles   **Nonadjacent complementary angles**

- Linear Pair – two adjacent angles form a _____
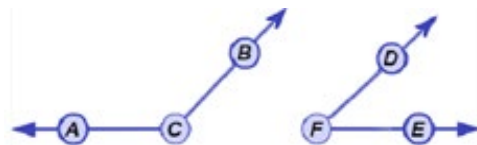
    and measure _____ degrees.

    - ○ In the figure shown to the right, rays $\overrightarrow{XA}$ and $\overrightarrow{XC}$ also known as "opposite rays" which is a straight line therefore, ∠AXB and ∠BXC form a linear pair and are also supplementary.

- Supplementary Angles – two angles whose measures add to _____ degrees.
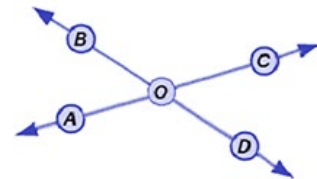   - ○ Supplementary angles can be *adjacent* or *nonadjacent*.

Adjacent supplementary angles   **Nonadjacent supplementary angles**

- Vertical Angles – two nonadjacent angles formed by intersecting lines.
    - ○ A pair of intersecting lines forms two pairs of vertical angles.
        - ▪ The vertical angles in the figure to the right are

            ∠AOB and ∠_____, and ∠AOD and ∠_____.

    *Challenge – using the definition about supplementary angles, what can you infer about the degrees of vertical angles?