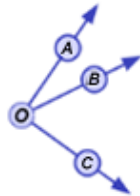# Vocabulary: Investigating Angle Theorems
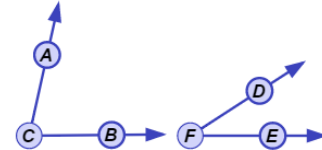
📖 Vocabulary

- <u>Complementary angles</u> – two angles whose measures add to 90°.
    - Complementary angles (also called *complements*) can be *adjacent* (sharing a common side and a common vertex) or *nonadjacent*.
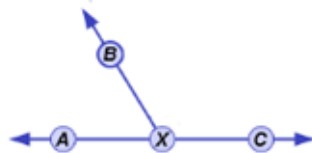
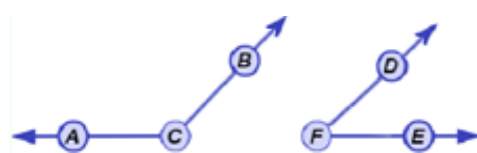**Adjacent complementary angles**   **Nonadjacent complementary angles**

- <u>Linear pair</u> – two adjacent angles whose non-common sides form a straight line.
    - In the figure shown to the right, rays $\overrightarrow{XA}$ and $\overrightarrow{XC}$ form a straight line, so $\angle AXB$ and $\angle BXC$ form a linear pair.

- <u>Supplementary angles</u> – two angles whose measures add to 180°.
    - Supplementary angles (also called *supplements*) can be *adjacent* or *nonadjacent*.

Adjacent supplementary angles   **Nonadjacent supplementary angles**

- <u>Vertical angles</u> – 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 $\angle AOB$ and $\angle DOC$, and $\angle AOD$ and $\angle BOC$.