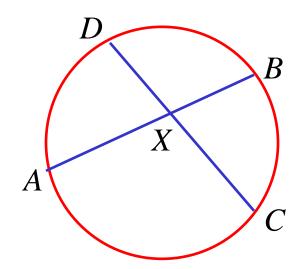
## Products of Intercepts



$$AX \cdot BX = CX \cdot DX$$

(product of intercepts of intersecting chords)

"endpoint of the chord to the point of intersection (AX) times endpoint of the chord to the point of intersection (BX) equals endpoint of the chord to the point of intersection (CX) times endpoint of the chord to the point of intersection (DX)

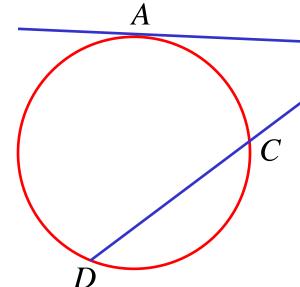
Note: secants intersect outside the circle



$$AX \cdot BX = CX \cdot DX$$

(product of intercepts of intersecting secants)

Exercise 9G; 1ace, 2, 4, 6, 9a



$$AX^2 = CX \cdot DX$$

(square of tangents = product of intercepts)