

④

* XY - Coordinate Plane

- Intersecting lines

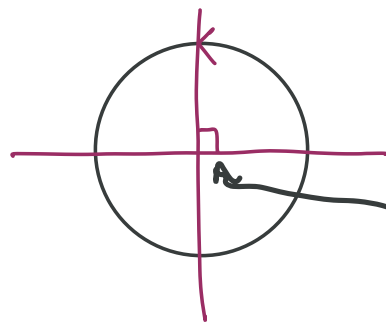
- 2 lines that cross/touch at some point

- Perpendicular Lines

- 2 lines that intersect and create a 90° angle

- Parallel Lines

- 2 lines that never touch/cross/intersect



360° - Circle

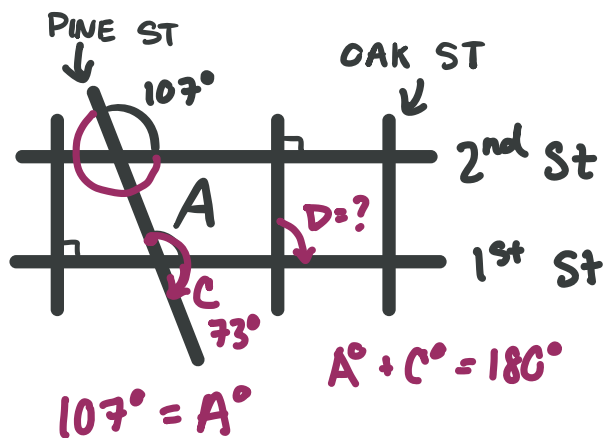
90° - $\frac{1}{4}$ circle



180° - Semi-circle



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- 1st and 2nd are parallel lines
- Pine intersects both 1st and 2nd

These observations tell us that angle A is equal to 107°

Bonus:

- What if we wanted to find the angle of C?

* For angle C: We now know that half-circles create 180° , so the sum of A and C must equal 180° .

$$A^\circ + C^\circ = 180^\circ$$

$$107^\circ + C^\circ = 180^\circ$$

$$C^\circ = 180^\circ - 107^\circ = 73^\circ$$

$$\therefore C^\circ = 73^\circ$$