

Solving Problems with Trigonometry

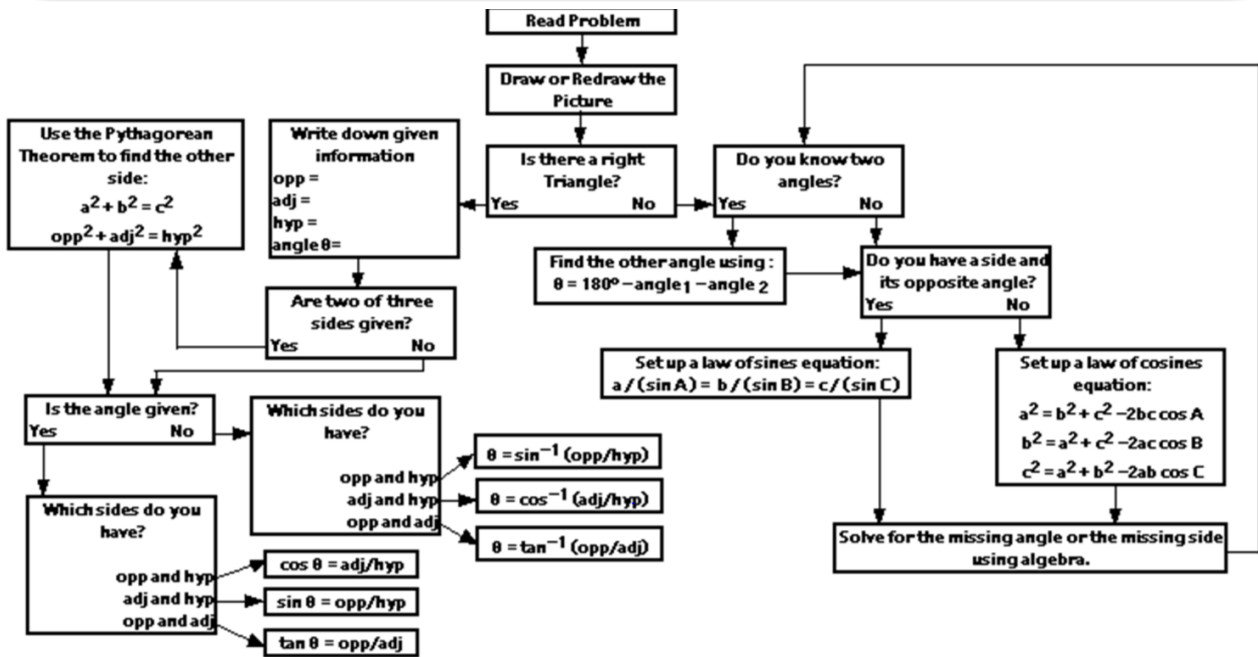
Learning Goal

Problem 1: What Would You Choose?

The perimeter of an equilateral triangle, PQR, is 15 cm.

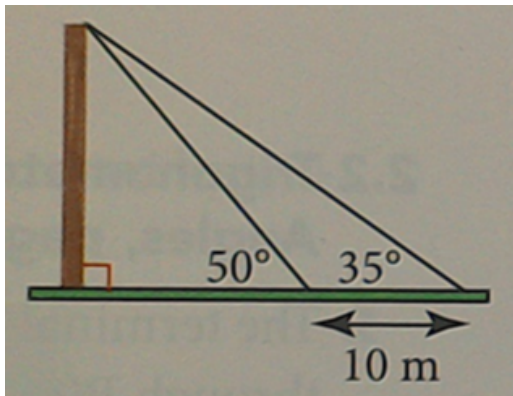
Find the measure of angle Q to the nearest degree **two** ways.

Problem 1: Trig Decision Flowchart



Problem 1: Solution

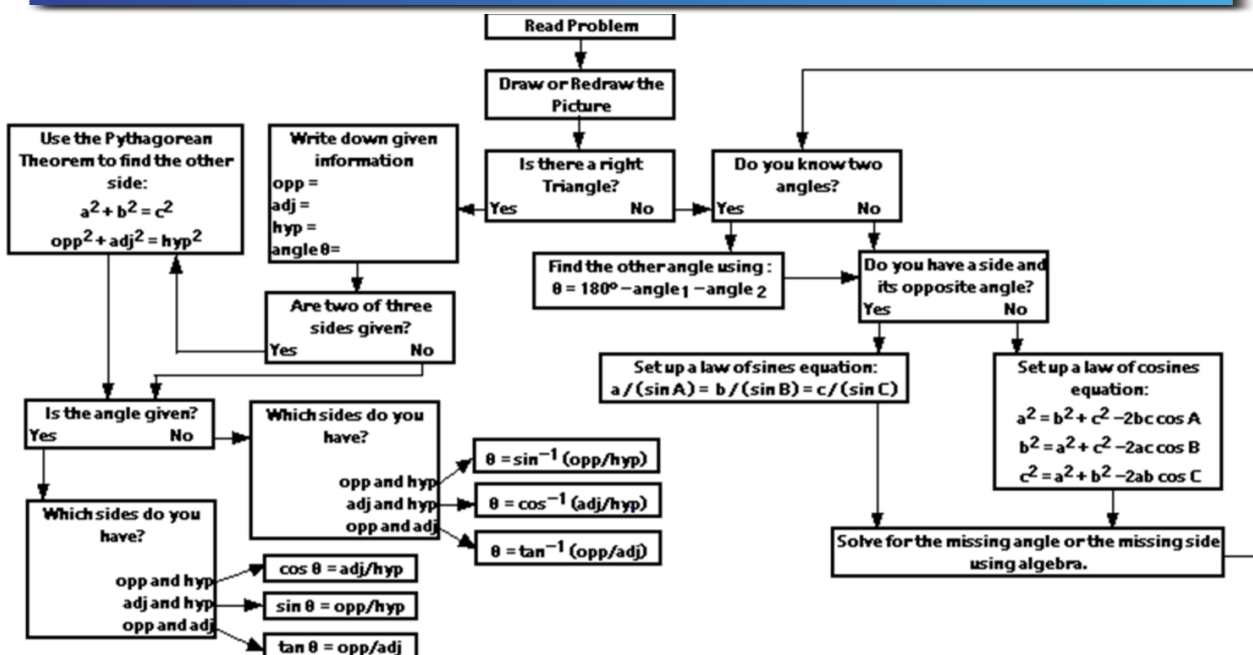
Problem 2: What Would You Choose?



Two supporting wires need to be replaced for a hydro pole. The distance between the wires is to be 10 m, and their angles of inclination are to be 50 and 35.

- What total length of wire is needed?
- How tall is the pole?

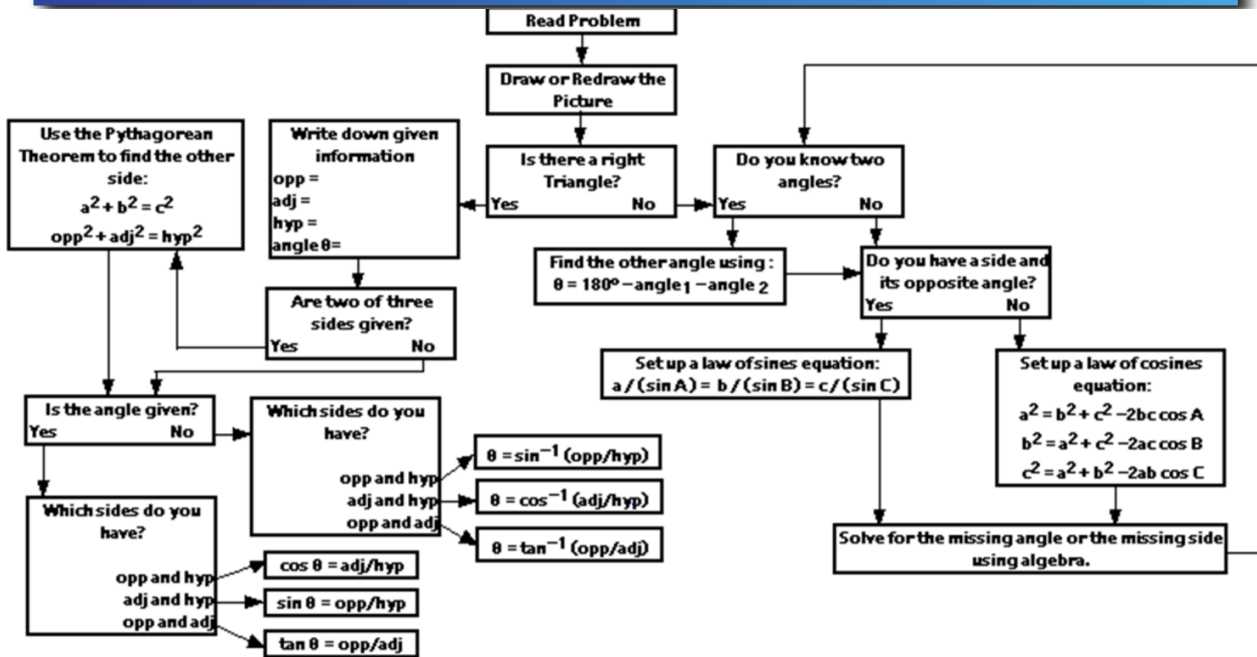
Problem 2: Trig Decision Flowchart



Problem 2: Solution

Problem 3: What Would You Choose?

Problem 3: Trig Decision Flowchart



Problem 3: Solution