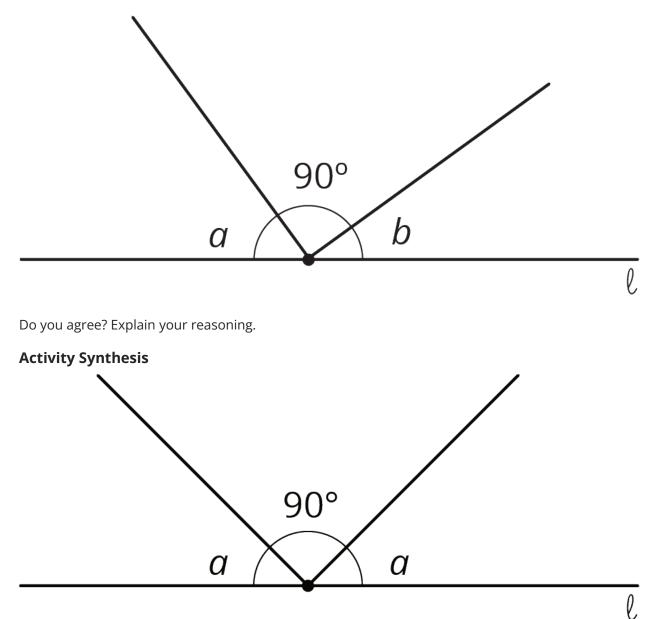
Unit 7 Lesson 5: Using Equations to Solve for Unknown Angles

1 Is This Enough? (Warm up)

Student Task Statement

Tyler thinks that this figure has enough information to figure out the values of *a* and *b*.



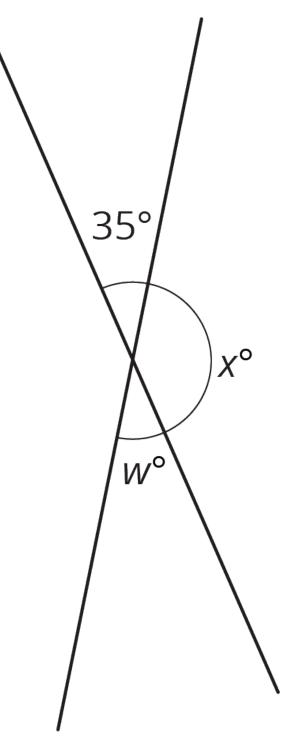
2 What Does It Look Like?

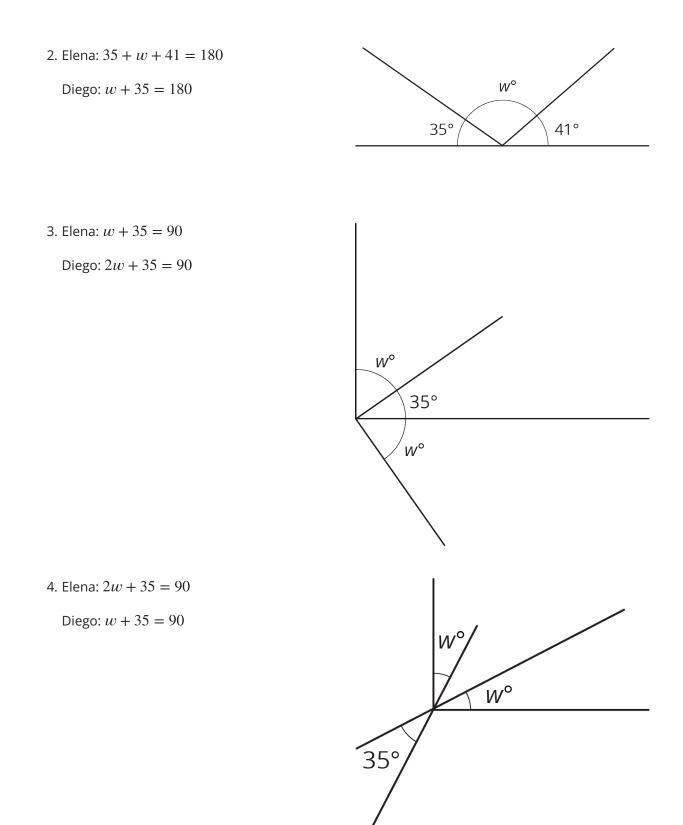
Student Task Statement

Elena and Diego each wrote equations to represent these diagrams. For each diagram, decide which equation you agree with, and solve it. You can assume that angles that look like right angles are indeed right angles.

1. Elena: *x* = 35

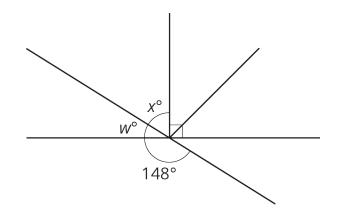
Diego: x + 35 = 180





5. Elena: *w* + 148 = 180

Diego: x + 90 = 148



3 Calculate the Measure

Student Task Statement

Find the unknown angle measures. Show your thinking. Organize it so it can be followed by others.

