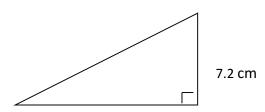
U2D2 MAP 4CI

Determining Lengths of Sides in Right Triangles

Example 1: Determine the length of side x, to the nearest tenth. Given ΔXYZ , z = 7.2 cm, $Z = 35^{\circ}$, $Y = 90^{\circ}$



Recall: Angle of elevation/inclination is always measured UP from the HORIZONTAL.

Angle of depression always measured DOWN from the HORIZONTAL.

Example 2: Tanya is standing 7.92 m from the flagpole. She is holding a clinometer at eye level 1.6 m above the ground. How tall is the flagpole if she measures a 50° angle of elevation?

U2D2 Practice: Page 80 #1a, 2a, 3, 4, 9, 10, 12