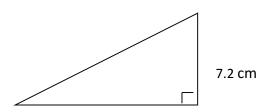
U2D2 MAP 4CI

## **Determining Lengths of Sides in Right Triangles**

**Example 1**: Determine the length of side x, to the nearest tenth. Given  $\Delta XYZ$ , 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?

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