MFM2PI – *Unit 5: Trigonometry – Objective #8*  Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Real World Problems Using Trigonometry** |
| * Complete real world problems using trigonometry
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1. **Real World Problems – Angle of Elevation**

***Angle of elevation*** *refers to the angle between the horizontal line and the line of sight UP to an object.*

Example 1: From a point 15 metres from the base of a building, Mr. Smith measures the angle of elevation up to the top of the building to be 46°. How high is the building?

1. **Real World Problems – Angle of Depression**

***Angle of depression*** *refers to the angle between the horizontal line and the line of sight DOWN to an object.*

Example 2: A plane is coming down to land at Pearson International Airport in Toronto. The angle of depression is 22°. The plane is 350 metres from the landing point along the ground. How high is the plane?