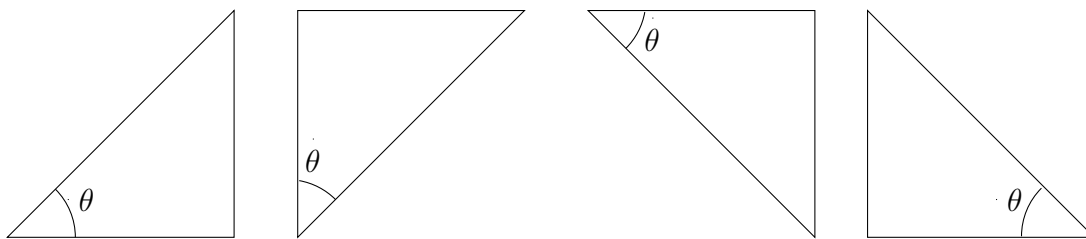




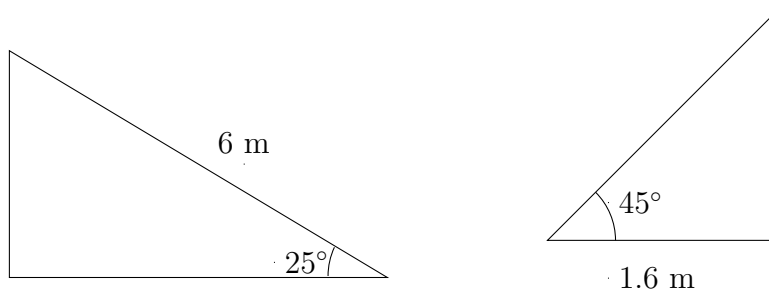
Name: _____

Assignment 0.03 - Trigonometry Review

1. Identify the opposite, adjacent, and hypotenuse of each of the following triangles:



2. Calculate the length of each side of the following triangles (not drawn to scale):



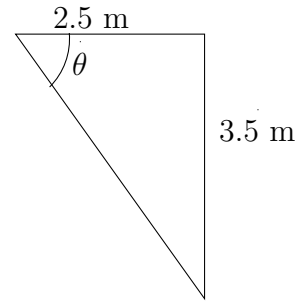
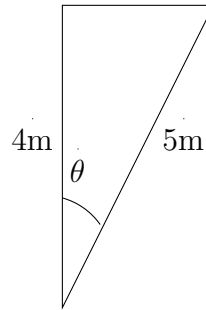
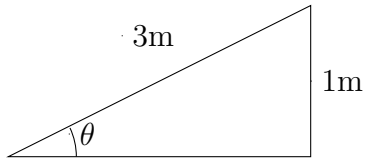
3. Ivan is walking across a field. He walks 6000m in 40 minutes, at a 35° angle south of west.

- (a) Draw a diagram of the situation.
- (b) How far west is Ivan from where he started?
- (c) How far south is Ivan from where he started?
- (d) How fast was Ivan walking?
- (e) How fast was Ivan moving to the west?
- (f) How fast was Ivan moving to the south?



Name: _____

4. Calculate the indicated angle for each triangle:



5. Angel is hiking in the desert, where he walks 2 miles to the east, then 1 miles north.

(a) Draw a diagram of the situation.

(b) How far is Angel from where he started?

(c) Because he has been gone for so long, a search-and-rescue helicopter is dispatched to find Angel. What angle (measured from east) should the helicopter pilot fly at to find him?

6. Hazel is flying in a plane at 350 m/s to the north. The wind is blowing at 120 m/s to the east.

(a) Draw a diagram of the situation.

(b) What is Hazel's resultant speed?

(c) What angle will Hazel's plane go (measured from north)?