

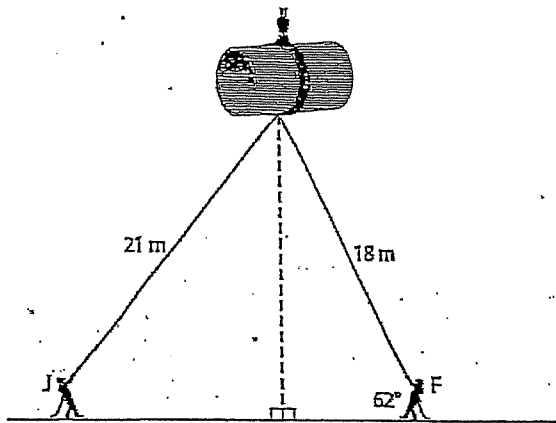
Hand In - 2 Triangle Trig

Name: _____

Total Marks: _____/8

The following questions are word problems (*don't forget to include the elements of a word problem... sketch, sentence, etc.*).

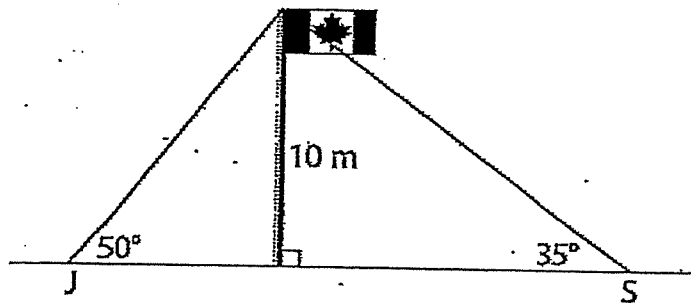
1. Taglines are essential safety equipment for using cranes. They are attached to the load of a crane to help steady the load and reduce the amount it swings. A crew of crane operators is moving a large piece of concrete sewer piping. Jeffery and Franc each hold a tagline attached to the piece of piping.



- a) Franc holds an 18 m tagline at an angle of elevation of 62° . How high is the piece of piping above the ground?

- b) Jeffrey's tagline is 21 m long. What is the angle of elevation of his tagline, to the nearest degree?

2. Jack and Sarah are facing each other on opposite sides of a 10 m flagpole. From Jack's point of view, the top of the flagpole is at an angle of elevation of about 50° . From Sarah's point of view, the angle of elevation is about 35° .



- a) Calculate the distance between Jack and Sarah.