

Name: _____

Date: _____

Applications of the Pythagorean Theorem Worksheet

1. If the legs of an isosceles right triangle (2 sides are equal) are 6 units long, find the length of the hypotenuse.

2. Eva Lewis wants to put an underground sprinkler system in her back yard. A drawing of the

system is shown below. About how many feet of water pipe will she need?



3. Jackson is 54 miles from Lucy R. Brown, Ontario is 31 miles south of Jackson. A land developer proposes building a shortcut road to directly connect Ontario and Lucy R. Draw a

picture and find the length of this new road.

4. A television screen measures approximately 15.5 in. high and 19.5 in. wide. A television is

advertised by giving the approximate length of the diagonal of its screen. How should this

television be advertised?

5. A 6-ft ladder is placed against a wall with its base 2 ft from the wall. How high above the ground is the top of the ladder?