(PART 1) RIGHT TRIANGLE APPLICATIONS

OBJECTIVES: 1) Solve a right triangle using trig (in the context of a word problem). 2) Find the area of a triangle and other regular shapes.

SOLVE A RIGHT TRIANGLE

Solve the right triangle. (Find the missing side lengths or angles.)



3) A ladder leaning against a wall. The base of the ladder is 1.7 meters from the base of the building and the ladder makes an angle of 74° with the ground. How far from the ground is the top of the ladder?



4) From the top of a lighthouse 210 feet high, the angle of depression of a boat is 27°. Find the distance from the boat to the foot of the lighthouse. Assume that the lighthouse was built at sea level.



10.1 Notes



5) Find the area of the triangle:



6) Find the area of the regular hexagon.

