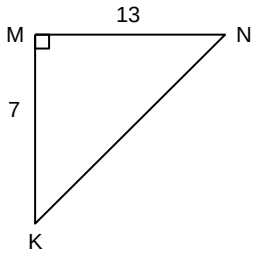
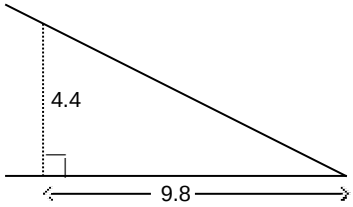
Mathematics 1201
Assignment #1 Unit 2

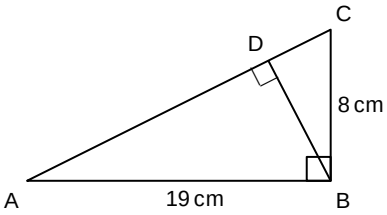
1. Determine the measure of ∠N to the nearest tenth of a degree.



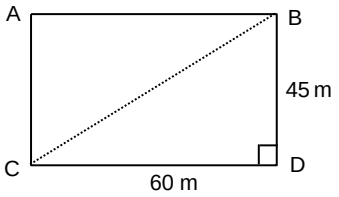
2. Determine the angle of inclination of the line to the nearest tenth of a degree.



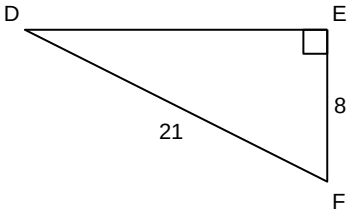
3. Determine the measure of ∠ABD to the nearest tenth of a degree.



4. Rhonda walked diagonally across a rectangular playground with dimensions 60 m by 45 m. She started at point Determine the angle, to the nearest degree, between her path and the longest side of the playground.

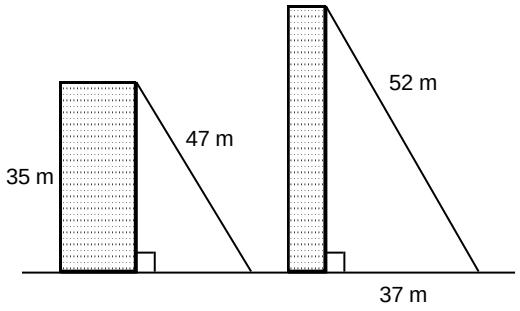


5. Determine the measure of $\angle D$ to the nearest tenth of a degree.



6. A helicopter is hovering 200 m above a road. A car stopped on the side of the road is 300 m from the helicopter. What is the angle of elevation of the helicopter measured from the car, to the nearest degree?

7. A ladder is 13.0 m long. It leans against a wall. The base of the ladder is 3.7 m from the wall. What is the angle of inclination of the ladder to the nearest tenth of a degree?

8. A rope that anchors a hot air balloon to the ground is 136 m long. The balloon is 72 m above the ground. What is the angle of inclination of the rope to the nearest tenth of a degree?

9. Guy wires are attached to buildings as shown. A student says the angles of inclination of the wires are the same. Is the student correct? Justify your answer.