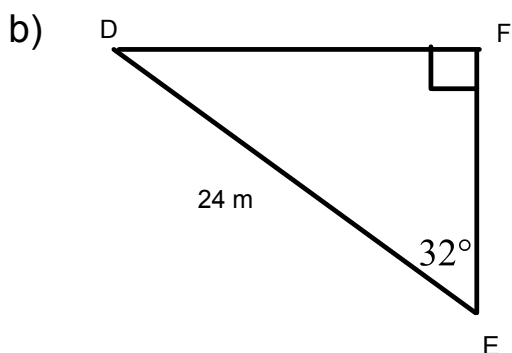
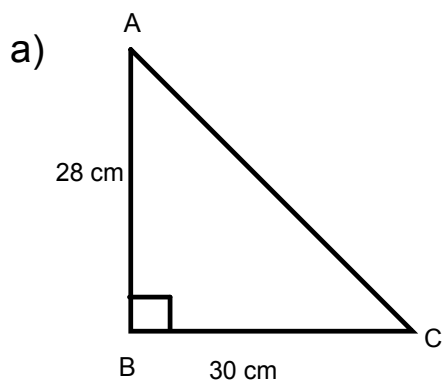


Section 2.6 Applying the Trigonometric Ratios

To SOLVE a triangle means to find ALL missing measures. A triangle has 3 sides and 3 angles. All 6 measures must be determined to SOLVE a triangle.

Example 1 Solve the following triangles.



Example 2

When the foot of a ladder is 2 m from the wall, the angle formed by the ladder and the ground is 60° . How long is the ladder?

Example 3

A tree casts a shadow 32 m long when the sun's rays are at an angle of 42° to the ground. How tall is the tree?

Example 4

A mountain road drops 5.2 m for every 22.5 m of road. Calculate the angle of inclination.

Work Book Questions

p.111-112 #4abcd, 5ab, 6ac, 8,
9ab, 11ab, 12ab

Extra Practice Questions

p.111-112 #3abcd, 5cd, 6bd, 7ab,
10ab