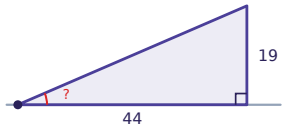
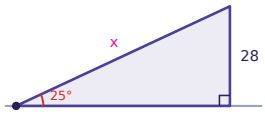
Angles of Elevation & Depression · 1

A ramp rises 19 ft over a horizontal distance of 44 ft. Find its angle of elevation.



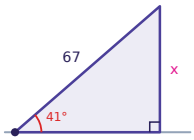
Angles of Elevation & Depression · 2

A ladder leans against a wall and makes a 25° angle with the ground. The top of the ladder is 28 ft above the ground. How long is the ladder?



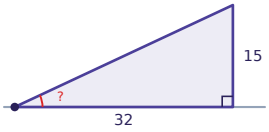
Angles of Elevation & Depression · 3

A kite string is 67 ft long and makes an angle of elevation of 41° with the ground. How high is the kite?



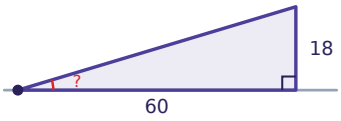
Angles of Elevation & Depression · 4

A ramp rises 15 ft over a horizontal distance of 32 ft. Find its angle of elevation.



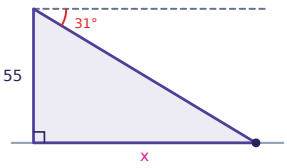
Angles of Elevation & Depression · 5

A ramp rises 18 ft over a horizontal distance of 60 ft. Find its angle of elevation.



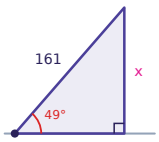
Angles of Elevation & Depression · 6

From the top of a 55 ft cliff, the angle of depression to a boat is 31°. How far is the boat from the base of the cliff?



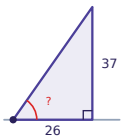
Angles of Elevation & Depression · 7

A kite string is 161 ft long and makes an angle of elevation of 49° with the ground. How high is the kite?



Angles of Elevation & Depression · 8

A ramp rises 37 ft over a horizontal distance of 26 ft. Find its angle of elevation.



Angles of Elevation & Depression · 2

ANSWER

66.3

Angles of Elevation & Depression · 1

ANSWER

23°

Angles of Elevation & Depression · 4

ANSWER

25°

Angles of Elevation & Depression · 3

ANSWER

44.0

Angles of Elevation & Depression · 6

ANSWER

91.5

Angles of Elevation & Depression · 5

ANSWER

17°

Angles of Elevation & Depression · 8

ANSWER

55°

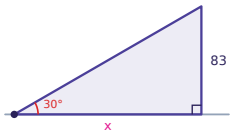
Angles of Elevation & Depression · 7

ANSWER

121.5

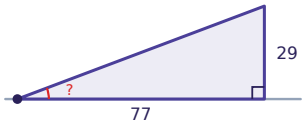
Angles of Elevation & Depression · 9

The top of a 83 m tower is seen from a point on the ground at an angle of elevation of 30°. How far is the point from the base of the tower?



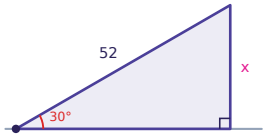
Angles of Elevation & Depression · 10

A ramp rises 29 ft over a horizontal distance of 77 ft. Find its angle of elevation.



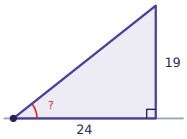
Angles of Elevation & Depression · 11

A kite string is 52 ft long and makes an angle of elevation of 30° with the ground. How high is the kite?



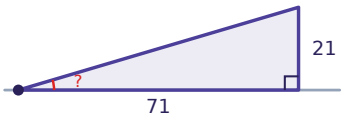
Angles of Elevation & Depression · 12

A ramp rises 19 ft over a horizontal distance of 24 ft. Find its angle of elevation.



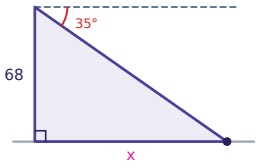
Angles of Elevation & Depression · 13

A ramp rises 21 ft over a horizontal distance of 71 ft. Find its angle of elevation.



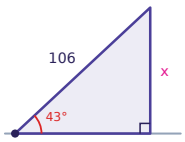
Angles of Elevation & Depression · 14

From the top of a 68 ft cliff, the angle of depression to a boat is 35°. How far is the boat from the base of the cliff?



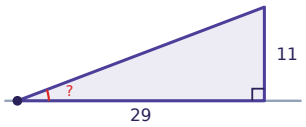
Angles of Elevation & Depression · 15

A kite string is 106 ft long and makes an angle of elevation of 43° with the ground. How high is the kite?



Angles of Elevation & Depression · 16

A ramp rises 11 ft over a horizontal distance of 29 ft. Find its angle of elevation.



Angles of Elevation & Depression · 10

ANSWER

21°

Angles of Elevation & Depression · 9

ANSWER

143.8

Angles of Elevation & Depression · 12

ANSWER

38°

Angles of Elevation & Depression · 11

ANSWER

26.0

Angles of Elevation & Depression · 14

ANSWER

97.1

Angles of Elevation & Depression · 13

ANSWER

16°

Angles of Elevation & Depression · 16

ANSWER

21°

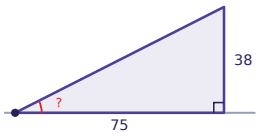
Angles of Elevation & Depression · 15

ANSWER

72.3

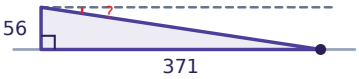
Angles of Elevation & Depression · 17

A ramp rises 38 ft over a horizontal distance of 75 ft. Find its angle of elevation.



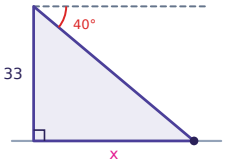
Angles of Elevation & Depression · 18

A pilot flying 56 m above the ground sees a landing strip 371 m away horizontally. Find the angle of depression from the plane to the strip.



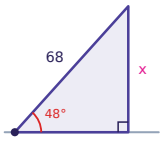
Angles of Elevation & Depression · 19

From the top of a 33 ft cliff, the angle of depression to a boat is 40°. How far is the boat from the base of the cliff?



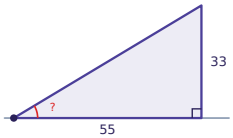
Angles of Elevation & Depression · 20

A kite string is 68 ft long and makes an angle of elevation of 48° with the ground. How high is the kite?



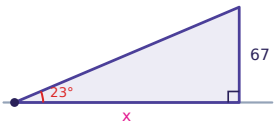
Angles of Elevation & Depression · 21

A ramp rises 33 ft over a horizontal distance of 55 ft. Find its angle of elevation.



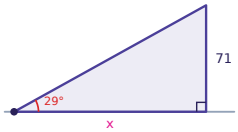
Angles of Elevation & Depression · 22

The top of a 67 m tower is seen from a point on the ground at an angle of elevation of 23°. How far is the point from the base of the tower?



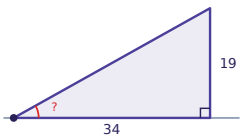
Angles of Elevation & Depression · 23

The top of a 71 m tower is seen from a point on the ground at an angle of elevation of 29°. How far is the point from the base of the tower?



Angles of Elevation & Depression · 24

A ramp rises 19 ft over a horizontal distance of 34 ft. Find its angle of elevation.



Angles of Elevation & Depression · 18

ANSWER

9°

Angles of Elevation & Depression · 17

ANSWER

27°

Angles of Elevation & Depression · 20

ANSWER

50.5

Angles of Elevation & Depression · 19

ANSWER

39.3

Angles of Elevation & Depression · 22

ANSWER

157.8

Angles of Elevation & Depression · 21

ANSWER

31°

Angles of Elevation & Depression · 24

ANSWER

29°

Angles of Elevation & Depression · 23

ANSWER

128.1