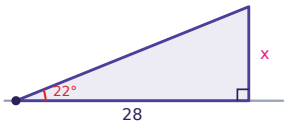
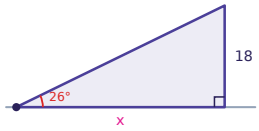
Angles of Elevation & Depression · 1

You stand 28 ft from the base of a flagpole. The angle of elevation to the top of the flagpole is 22°. How tall is the flagpole?



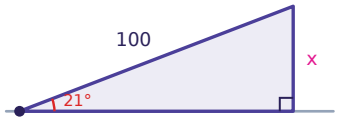
Angles of Elevation & Depression · 2

The top of a 18 m tower is seen from a point on the ground at an angle of elevation of 26°. How far is the point from the base of the tower?



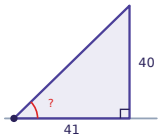
Angles of Elevation & Depression · 3

A kite string is 100 ft long and makes an angle of elevation of 21° with the ground. How high is the kite?



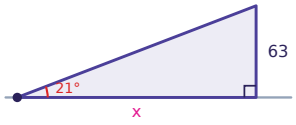
Angles of Elevation & Depression · 4

A ramp rises 40 ft over a horizontal distance of 41 ft. Find its angle of elevation.



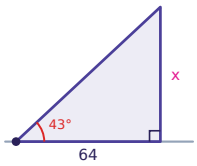
Angles of Elevation & Depression · 5

The top of a 63 m tower is seen from a point on the ground at an angle of elevation of 21°. How far is the point from the base of the tower?



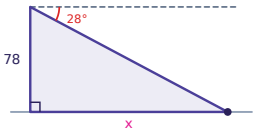
Angles of Elevation & Depression · 6

You stand 64 ft from the base of a cliff. The angle of elevation to the top of the cliff is 43°. How tall is the cliff?



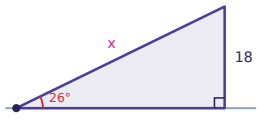
Angles of Elevation & Depression · 7

From the top of a 78 ft lighthouse, the angle of depression to a boat is 28°. How far is the boat from the base of the lighthouse?



Angles of Elevation & Depression · 8

A ladder leans against a wall and makes a 26° angle with the ground. The top of the ladder is 18 ft above the ground. How long is the ladder?



Angles of Elevation & Depression · 2

ANSWER

36.9

Angles of Elevation & Depression · 1

ANSWER

11.3

Angles of Elevation & Depression · 4

ANSWER

44°

Angles of Elevation & Depression · 3

ANSWER

35.8

Angles of Elevation & Depression · 6

ANSWER

59.7

Angles of Elevation & Depression · 5

ANSWER

164.1

Angles of Elevation & Depression · 8

ANSWER

41.1

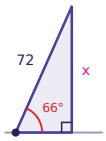
Angles of Elevation & Depression · 7

ANSWER

146.7

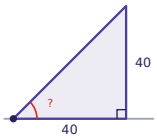
Angles of Elevation & Depression · 9

A kite string is 72 ft long and makes an angle of elevation of 66° with the ground. How high is the kite?



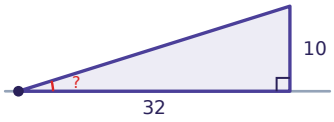
Angles of Elevation & Depression · 10

A ramp rises 40 ft over a horizontal distance of 40 ft. Find its angle of elevation.



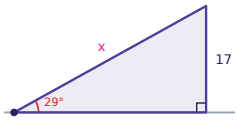
Angles of Elevation & Depression · 11

A ramp rises 10 ft over a horizontal distance of 32 ft. Find its angle of elevation.



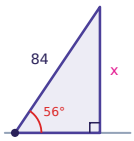
Angles of Elevation & Depression · 12

A ladder leans against a wall and makes a 29° angle with the ground. The top of the ladder is 17 ft above the ground. How long is the ladder?



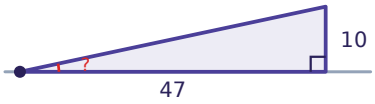
Angles of Elevation & Depression · 13

A kite string is 84 ft long and makes an angle of elevation of 56° with the ground. How high is the kite?



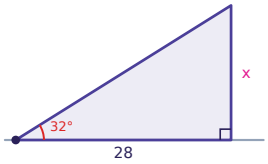
Angles of Elevation & Depression · 14

A ramp rises 10 ft over a horizontal distance of 47 ft. Find its angle of elevation.



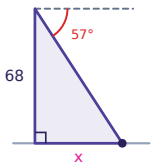
Angles of Elevation & Depression · 15

You stand 28 ft from the base of a tree. The angle of elevation to the top of the tree is 32°. How tall is the tree?



Angles of Elevation & Depression · 16

From the top of a 68 ft cliff, the angle of depression to a boat is 57°. How far is the boat from the base of the cliff?



Angles of Elevation & Depression · 10

ANSWER

45°

Angles of Elevation & Depression · 9

ANSWER

65.8

Angles of Elevation & Depression · 12

ANSWER

35.1

Angles of Elevation & Depression · 11

ANSWER

17°

Angles of Elevation & Depression · 14

ANSWER

12°

Angles of Elevation & Depression · 13

ANSWER

69.6

Angles of Elevation & Depression · 16

ANSWER

44.2

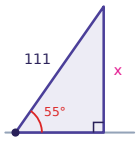
Angles of Elevation & Depression · 15

ANSWER

17.5

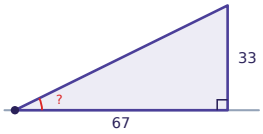
Angles of Elevation & Depression · 17

A kite string is 111 ft long and makes an angle of elevation of 55° with the ground. How high is the kite?



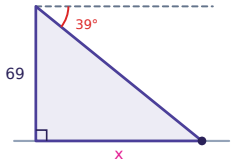
Angles of Elevation & Depression · 18

A ramp rises 33 ft over a horizontal distance of 67 ft. Find its angle of elevation.



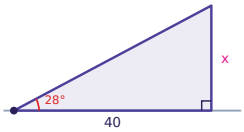
Angles of Elevation & Depression · 19

From the top of a 69 ft cliff, the angle of depression to a boat is 39°. How far is the boat from the base of the cliff?



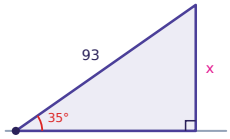
Angles of Elevation & Depression · 20

You stand 40 ft from the base of a flagpole. The angle of elevation to the top of the flagpole is 28°. How tall is the flagpole?



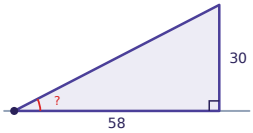
Angles of Elevation & Depression · 21

A kite string is 93 ft long and makes an angle of elevation of 35° with the ground. How high is the kite?



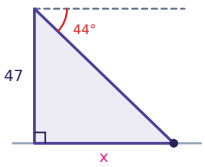
Angles of Elevation & Depression · 22

A ramp rises 30 ft over a horizontal distance of 58 ft. Find its angle of elevation.



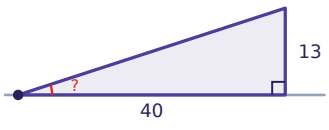
Angles of Elevation & Depression · 23

From the top of a 47 ft cliff, the angle of depression to a boat is 44°. How far is the boat from the base of the cliff?



Angles of Elevation & Depression · 24

A ramp rises 13 ft over a horizontal distance of 40 ft. Find its angle of elevation.



Angles of Elevation & Depression · 18

ANSWER

26°

Angles of Elevation & Depression · 17

ANSWER

90.9

Angles of Elevation & Depression · 20

ANSWER

21.3

Angles of Elevation & Depression · 19

ANSWER

85.2

Angles of Elevation & Depression · 22

ANSWER

27°

Angles of Elevation & Depression · 21

ANSWER

53.3

Angles of Elevation & Depression · 24

ANSWER

18°

Angles of Elevation & Depression · 23

ANSWER

48.7