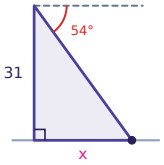
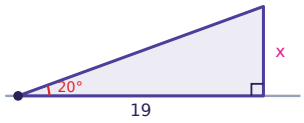
Angles of Elevation & Depression · 1

From the top of a 31 ft cliff, the angle of depression to a boat is 54°. How far is the boat from the base of the cliff?



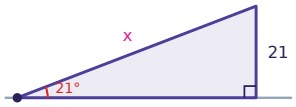
Angles of Elevation & Depression · 2

You stand 19 ft from the base of a flagpole. The angle of elevation to the top of the flagpole is 20°. How tall is the flagpole?



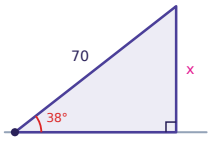
Angles of Elevation & Depression · 3

A ladder leans against a wall and makes a 21° angle with the ground. The top of the ladder is 21 ft above the ground. How long is the ladder?



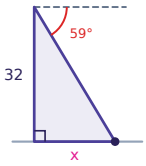
Angles of Elevation & Depression · 4

A kite string is 70 ft long and makes an angle of elevation of 38° with the ground. How high is the kite?



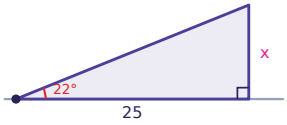
Angles of Elevation & Depression · 5

From the top of a 32 ft cliff, the angle of depression to a boat is 59°. How far is the boat from the base of the cliff?



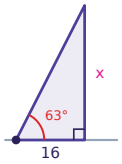
Angles of Elevation & Depression · 6

You stand 25 ft from the base of a building. The angle of elevation to the top of the building is 22°. How tall is the building?



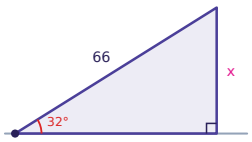
Angles of Elevation & Depression · 7

You stand 16 ft from the base of a tree. The angle of elevation to the top of the tree is 63°. How tall is the tree?



Angles of Elevation & Depression · 8

A kite string is 66 ft long and makes an angle of elevation of 32° with the ground. How high is the kite?



Angles of Elevation & Depression · 2

ANSWER

6.9

Angles of Elevation & Depression · 1

ANSWER

22.5

Angles of Elevation & Depression · 4

ANSWER

43.1

Angles of Elevation & Depression · 3

ANSWER

58.6

Angles of Elevation & Depression · 6

ANSWER

10.1

Angles of Elevation & Depression · 5

ANSWER

19.2

Angles of Elevation & Depression · 8

ANSWER

35.0

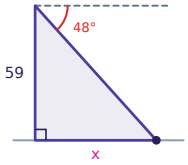
Angles of Elevation & Depression · 7

ANSWER

31.4

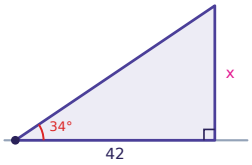
Angles of Elevation & Depression · 9

From the top of a 59 ft cliff, the angle of depression to a boat is 48°. How far is the boat from the base of the cliff?



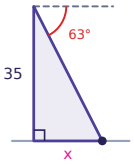
Angles of Elevation & Depression · 10

You stand 42 ft from the base of a cliff. The angle of elevation to the top of the cliff is 34°. How tall is the cliff?



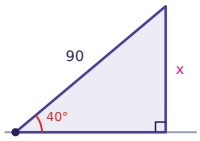
Angles of Elevation & Depression · 11

From the top of a 35 ft cliff, the angle of depression to a boat is 63°. How far is the boat from the base of the cliff?



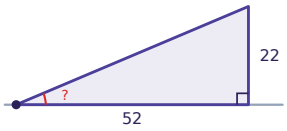
Angles of Elevation & Depression · 12

A kite string is 90 ft long and makes an angle of elevation of 40° with the ground. How high is the kite?



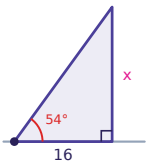
Angles of Elevation & Depression · 13

A ramp rises 22 ft over a horizontal distance of 52 ft. Find its angle of elevation.



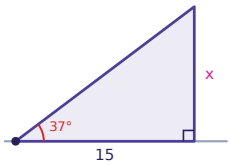
Angles of Elevation & Depression · 14

You stand 16 ft from the base of a cliff. The angle of elevation to the top of the cliff is 54°. How tall is the cliff?



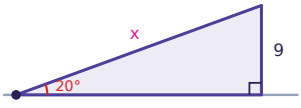
Angles of Elevation & Depression · 15

You stand 15 ft from the base of a cliff. The angle of elevation to the top of the cliff is 37°. How tall is the cliff?



Angles of Elevation & Depression · 16

A ladder leans against a wall and makes a 20° angle with the ground. The top of the ladder is 9 ft above the ground. How long is the ladder?



Angles of Elevation & Depression · 10

ANSWER

28.3

Angles of Elevation & Depression · 9

ANSWER

53.1

Angles of Elevation & Depression · 12

ANSWER

57.9

Angles of Elevation & Depression · 11

ANSWER

17.8

Angles of Elevation & Depression · 14

ANSWER

22.0

Angles of Elevation & Depression · 13

ANSWER

23°

Angles of Elevation & Depression · 16

ANSWER

26.3

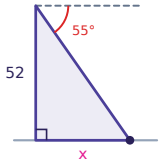
Angles of Elevation & Depression · 15

ANSWER

11.3

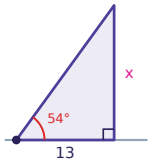
Angles of Elevation & Depression · 17

From the top of a 52 ft cliff, the angle of depression to a boat is 55°. How far is the boat from the base of the cliff?



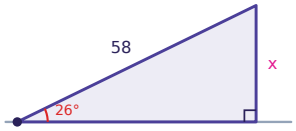
Angles of Elevation & Depression · 18

You stand 13 ft from the base of a tree. The angle of elevation to the top of the tree is 54°. How tall is the tree?



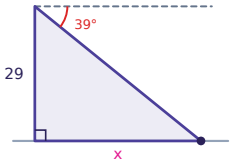
Angles of Elevation & Depression · 19

A kite string is 58 ft long and makes an angle of elevation of 26° with the ground. How high is the kite?



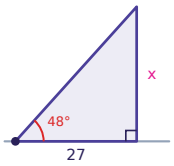
Angles of Elevation & Depression · 20

From the top of a 29 ft cliff, the angle of depression to a boat is 39°. How far is the boat from the base of the cliff?



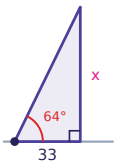
Angles of Elevation & Depression · 21

You stand 27 ft from the base of a tree. The angle of elevation to the top of the tree is 48°. How tall is the tree?



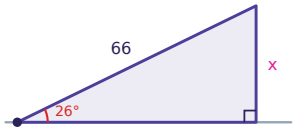
Angles of Elevation & Depression · 22

You stand 33 ft from the base of a cliff. The angle of elevation to the top of the cliff is 64°. How tall is the cliff?



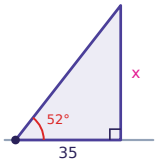
Angles of Elevation & Depression · 23

A kite string is 66 ft long and makes an angle of elevation of 26° with the ground. How high is the kite?



Angles of Elevation & Depression · 24

You stand 35 ft from the base of a tree. The angle of elevation to the top of the tree is 52°. How tall is the tree?



Angles of Elevation & Depression · 18

ANSWER

17.9

Angles of Elevation & Depression · 17

ANSWER

36.4

Angles of Elevation & Depression · 20

ANSWER

35.8

Angles of Elevation & Depression · 19

ANSWER

25.4

Angles of Elevation & Depression · 22

ANSWER

67.7

Angles of Elevation & Depression · 21

ANSWER

30.0

Angles of Elevation & Depression · 24

ANSWER

44.8

Angles of Elevation & Depression · 23

ANSWER

28.9