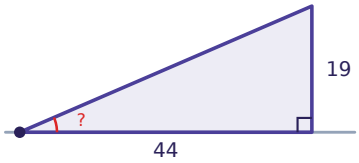
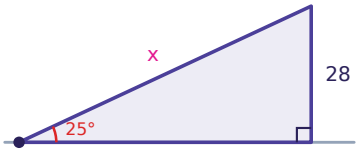
Task card 1 Angles of Elevation & Depression

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



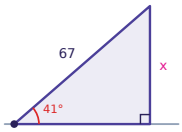
Task card 2 Angles of Elevation & Depression

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?



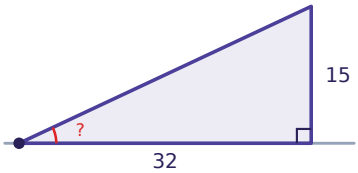
Task card 3 Angles of Elevation & Depression

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



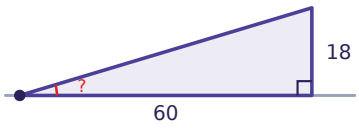
Task card 4 Angles of Elevation & Depression

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



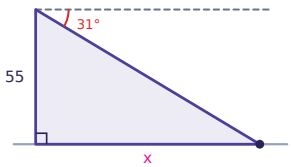
Task card 5 Angles of Elevation & Depression

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



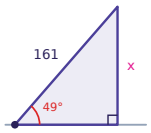
Task card 6 Angles of Elevation & Depression

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?



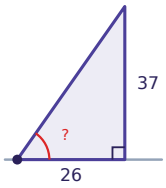
Task card 7 Angles of Elevation & Depression

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



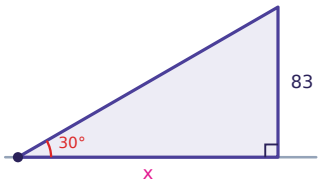
Task card 8 Angles of Elevation & Depression

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



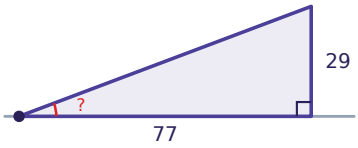
Task card 9 Angles of Elevation & Depression

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?



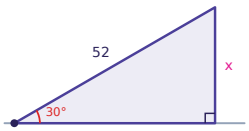
Task card 10 Angles of Elevation & Depression

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



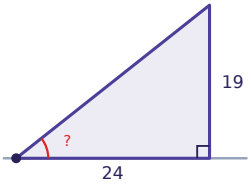
Task card 11 Angles of Elevation & Depression

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



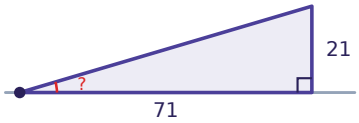
Task card 12 Angles of Elevation & Depression

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



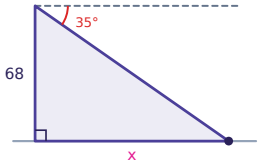
Task card 13 Angles of Elevation & Depression

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



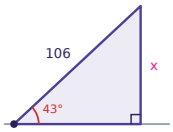
Task card 14 Angles of Elevation & Depression

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?



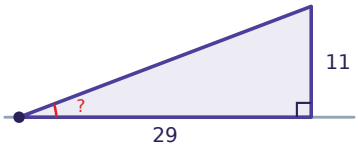
Task card 15 Angles of Elevation & Depression

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



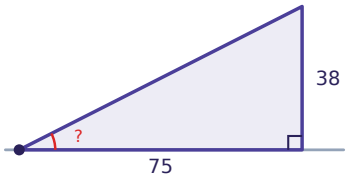
Task card 16 Angles of Elevation & Depression

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



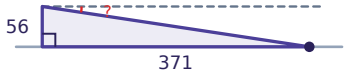
Task card 17 Angles of Elevation & Depression

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



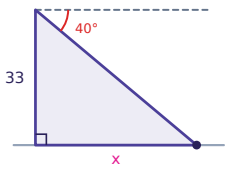
Task card 18 Angles of Elevation & Depression

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.



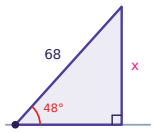
Task card 19 Angles of Elevation & Depression

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?



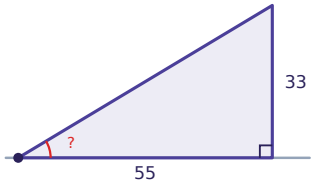
Task card 20 Angles of Elevation & Depression

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



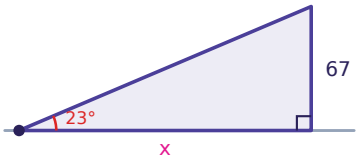
Task card 21 Angles of Elevation & Depression

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



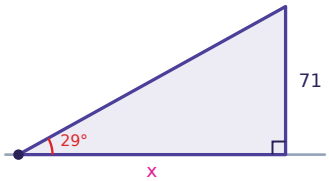
Task card 22 Angles of Elevation & Depression

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?



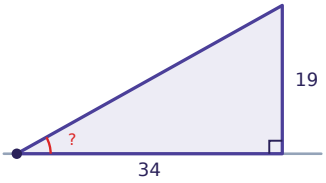
Task card 23 Angles of Elevation & Depression

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?



Task card 24 Angles of Elevation & Depression

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



Angles of Elevation & Depression Task Cards

Recording sheet · Grade 10 · Round lengths to the nearest tenth and angles to the nearest degree. Do not include units.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Angles of Elevation & Depression Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. 23°	**2.** 66.3	**3.** 44.0
4. 25°	**5.** 17°	**6.** 91.5
7. 121.5	**8.** 55°	**9.** 143.8
10. 21°	**11.** 26.0	**12.** 38°
13. 16°	**14.** 97.1	**15.** 72.3
16. 21°	**17.** 27°	**18.** 9°
19. 39.3	**20.** 50.5	**21.** 31°
22. 157.8	**23.** 128.1	**24.** 29°