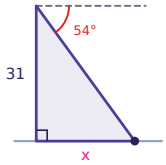
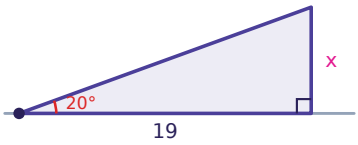
Task card 1 Angles of Elevation & Depression

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?



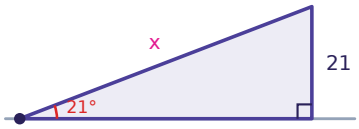
Task card 2 Angles of Elevation & Depression

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?



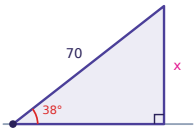
Task card 3 Angles of Elevation & Depression

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?



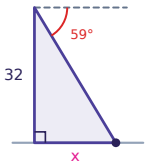
Task card 4 Angles of Elevation & Depression

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



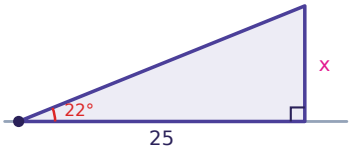
Task card 5 Angles of Elevation & Depression

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?



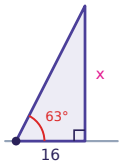
Task card 6 Angles of Elevation & Depression

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?



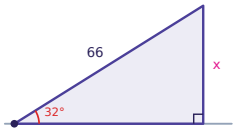
Task card 7 Angles of Elevation & Depression

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?



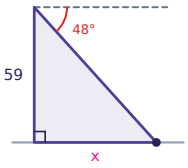
Task card 8 Angles of Elevation & Depression

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



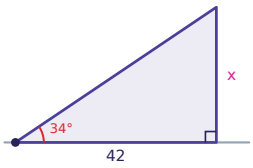
Task card 9 Angles of Elevation & Depression

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?



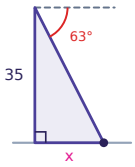
Task card 10 Angles of Elevation & Depression

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?



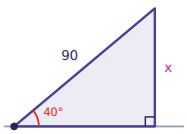
Task card 11 Angles of Elevation & Depression

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?



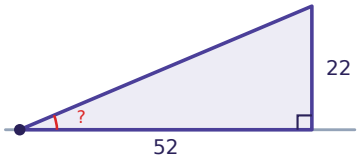
Task card 12 Angles of Elevation & Depression

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



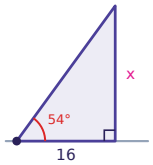
Task card 13 Angles of Elevation & Depression

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



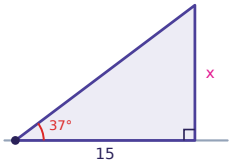
Task card 14 Angles of Elevation & Depression

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?



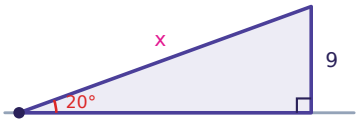
Task card 15 Angles of Elevation & Depression

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?



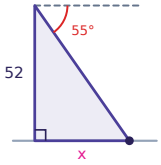
Task card 16 Angles of Elevation & Depression

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?



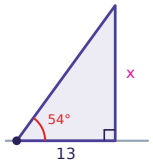
Task card 17 Angles of Elevation & Depression

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?



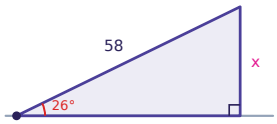
Task card 18 Angles of Elevation & Depression

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?



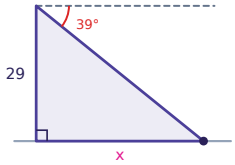
Task card 19 Angles of Elevation & Depression

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



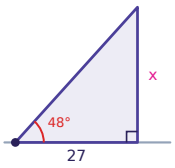
Task card 20 Angles of Elevation & Depression

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?



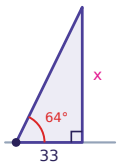
Task card 21 Angles of Elevation & Depression

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?



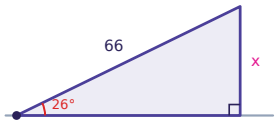
Task card 22 Angles of Elevation & Depression

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?



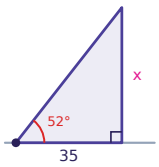
Task card 23 Angles of Elevation & Depression

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



Task card 24 Angles of Elevation & Depression

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 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 · Easy

The answers online

1. 22.5	**2.** 6.9	**3.** 58.6
4. 43.1	**5.** 19.2	**6.** 10.1
7. 31.4	**8.** 35.0	**9.** 53.1
10. 28.3	**11.** 17.8	**12.** 57.9
13. 23°	**14.** 22.0	**15.** 11.3
16. 26.3	**17.** 36.4	**18.** 17.9
19. 25.4	**20.** 35.8	**21.** 30.0
22. 67.7	**23.** 28.9	**24.** 44.8