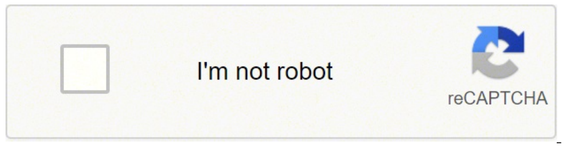
A man on a cliff observes a boat



Verify

A man on a cliff observes a boat

A man on a cliff observes a boat at an angle of depression of 30° which is approaching the shore. A man on a cliff observes a boat at an angle of depression of 30° which is sailing. A man on a cliff observes a boat at an angle of depression of 30°.

The questions posted on the site are generated exclusively by the user, Doubtnut has no property or control over the nature and content of these questions. Doubtnut is not responsible for any discrepancies related to the Duplicity of the contents on these questions. From the top of a high vertical cliff 72 m, a boat has a 12Â ° depression corner. How far is the boat from the base of the cliff? Give your answer to an adequate degree of accuracy. Declares any supposition you did in your calculation. In the triangle the length (or) it is known and the length (A) must be calculated. Use (tan {x} = frac {or} {a} [tan {32} = frac {72} {y} reorganize the equation to make the object (y) . Multiply both sides of (y). [Y times tan {32} = 72] Split both sides of (tan {32}). {tan {32}} [y = 115.2 ~ text {m} The boat is 115.2 m from the cliff base. 115.2 m closest). 110 m 120 m are appropriate answers. (note these are about the same degree of accuracy of the 72 m and 32 ° used in demand.) There are various assumptions that you can have done. For example: it is the distance from Find in the center of the boat or at the end of the boat that is closer to the cliff? The angle of depression was measured at the level of the bridge or sea level? (this affects the fact that 72 mo something a little less is used In the calculation). Different kinds of trigonometricly useful real word problems are practiced in the worksheet on heights and distances zzando a triangle on the right, elevation angle and corner of depression. 1. A staircase rests on a vertical wall so that the upper part of the ladder reaches the upper part of the wall. The scale is tilted at 60 ° with the ground, and the bottom of the scale is 1.5 m from the foot of the wall. Find (s) the length of the scale, and (ii) the height of the wall. 2. An airplane takes off at an angle of 30Â ° with the horizontal terrain. Find the height of the plane above the ground when traveled 184 m without changing direction.3. The elevation angle of the top of a vertical cliff from a point 15 m away from the foot of the cliff is 60Â °. Find the height of the cliff at the nearest meter. 4. The shadow length of a pillar is (frac {1} {sqrt {3}}) times the height of the pillar. Find the elevation corner of the Sole.5. A ship is at a distance of 200 m from a high tower. What is the corner of depression (at the nearest degree) of the ship found by a man after climbing 50 m on the tower? 6. The upper part of a high vertical palm being broke by the wind hit the ground at an angle of 60 ° at a distance of 9 m from the shaft foot. Find the original height of the palm. 7. A pole of 10 m is held vertical from a steel wire. The thread is tilted at an angle of 40Â ° with the horizontal terrain. If the wire passes Upper part of the pole at the point on the ground where the other end is fixed, find the length of the wire.8. A tower is 64 m high. A man man Ereat at a distance of 36 m from the tower observes the elevation angle of the top of the tower to be 60Â °. Find the height of man. 9. From the top of a high building of height 24 m, the depression angle of the upper part of another building is 45 ° whose height is 10 m. Find the distance between the two buildings. 10. A tower is located near the side of a river to P. On the other side of the river, Q is a point on the bank as f. It is the width of the river. R is the point on the b bank as p, q and r are in the same straight line. If qr = 5 meters and elevation angles of the top of the tower from q area r are 60Â ° and 45 ° respectively, find the width of the river and the height of the tower. 11. Depression corners of two boats on a river from the top of a pole 30 meters high on the river bank are 60Â ° and 75Â °. If the boats are in line with the polo, find the distance between the boats per closer. 12. A man standing on a cliff observes a ship at a corner of 30Â ° depression, approaching the shore just below him. Three minutes later, the ship's depression angle is 60Â °. How soon will you arrive at the shore? 13. A man on the shore of a stream of observes a tree on the opposite bank exactly through the torrent. He finds the elevation angle of the top of the tree at 45th. On the receding perpendicularly a distance of 4 meters from the bank, he finds that the elevation angle reduces 15Â °. Is this information sufficient for the man to determine the height of the tree and the width of the flow? If you find them so. 14. From the upper part of a light house the corners of two ships on the opposite sides of the light house were observed to be 60Â ° and 45Â °. If the height of the light house is 100 m and the foot of the light house is in line with ships, find the distance between the two ships. 15. From the top of a high tower 40 m the corner of depression of the closer of the two points p and q on the ground on diametrically opposite sides of the tower is 45Â °. Find the depression angle of the other point to the closer degree if the distances of the two points from the base of the tower are in the ratio 1: 2.16. In figure MN is a tower X and Y are two places on the ground on both sides of the tower such that XY subtles a right angle to M. If the distances of X and Y from the base n of the tower are respectively 40 m and 90 m. Find the height of the tower. 17. The elevation angle of the top of an unfinished tower from a place at a distance of 50 m from the tower is 44Â ° 40 '. To what added height the unfinished tower should raise me so that the elevation angle of the top of the tower from the same place would have become 59Â ° 30 '? 18. A flagstaff, 5 m high, is located on a vertical pole. The angles of elevation of the upper part and the bottom of the flagstaff from a point on the ground are respectively at 60 ° and 30Â °. Find the height of the pole. 19. A vertical fixed to the ground isin two parts from a sign on it. Each of the parts undergoes an angle 30 ° in a ground place. (I) Find the relationship between the two sides. (II) If the ground is 15 meters from the base of the pole, find the lengths of the two parts of the pole.20. A flag is fixed on the top of the tumulus and the elevation angles of the top and the bottom of the flagstaff are 60 ° and 30 ° respectively on a ground point. Shows that the length of the flagstaff is twice the height of the tumulus.21. A man walks towards an Ab building finds that the building disappears from his point of view when the elevation angle of the top c of a wall is xâ °, where Tan xâ ° = 1/3. The wall is 1.8 m tall, and the distance between the wall and the building is 3.6 m. Find the height of the building. 22. A vertical tower underlies a right angle at the top of a vertical flag on the ground, the flag height is 10 m. If the distance between the tower and the flag is 20 m, find the tower height. 23. A vertical pole on one side of a road undergoes a right angle at the top of a lamp post exactly on the opposite side of the road. If the upper lamp angle from the base of the pole is 58 ° 30 and the width of the road is 30 m, find the heights of the pole and the post.24 lamp. Top of a height of 200 m of hill, the depression angles of the top and the bottom of a pillar are respectively 45 ° and 59 ° 36 ". Find the height of the pillar and its distance from the hill.25. A bird is perched on the top of a 20 m tall tree and its elevation angle from one point to the ground is 45 °. The bird flies immediately horizontally from the observer and in 1 second the bird's elevation angle reduces to 35 °. Find the speed of the bird.26. The angles of depression and elevation of the top of the 12 m high wall from above and the bottom of a tree are respectively 60 ° and 30 °. Find (i) the height of the tree and (ii) the distance of the tree from the wall.27. Two pillars of equal height are on both sides of a road that is 40 m wide. From one point on the road between the pillars, the angles of elevation of the peaks of the pillars are 30 ° and 60 °. Find (i) the position of the point on the road, and (ii) the height of each pillar.28. A staircase rests against a house on one side of a street. The elevation angle of the top of the scale is 60 °. The staircase is aimed at resting against a house. On the other side of the road and the elevation now becomes 42 ° 50 Â ». If the scale is 40 m long, find the width of the road.29. The angle of elevation of a cloud from a point h meter above a lake is 30 ° and the angle of the depression of its reflection is 45 °. If the cloud height is 200 meters, find H.30. A house, 15 meters high, stands on one side of a park and from one point on the roof of the house, the depression angle of the foot of a fireplace is 30 ° and the corner of theof the top of the fireplaceThe feet of the house are 60 Â °. What is the height of the chimney? What is the distance between the house and the fireplace? The answers to the worksheet on heights and distances are shown below to verify the exact answers of the questions. Answers: 1. (i) 3 meters. (ii) 2.6 meters.2. 92 METRES3. 26 metres4. 60 Â ° 5. 14 Â ° 6.36 metres.7. 15.6 meters.8. 1.65 meters.9. 14 meters.10. 6.83 meters, 11.83 meters respectively.11. 9 meters.12. 4 minutes after the first observation. 13. Yes; Each = 5.46 meters.14. 157.74 meters.15. 27 Â 16. 60 meters.17. 35.47 meters. 18. 2.5 meters. 19. (i) lower part: top = 1: 2 (ii) lower part = 8.66 meters, upper part = 17.32 meters.21. 3 meters.22. 50 meters.23. 67.34 meters, 48.96 meters respectively. 24. 82.2 meters, 117.8 meters.25. 8.56 m / sec.26. (i) 48 meters. (ii) 20.78 meters.27. (i) 10 meters and 30 meters from the pillars (two positions) (ii) 17.32 metres.28. 49.33 METRES.29. 53.6 meters.30. 45 meters, 15Ã ¢ Â¡3 Methfrom flore worksheet of 10 Â ° grade on heights and distances on the home page did not find what you were looking for? Or you want to know more information about Mathematics only for math. Use this Google search to find what you need. Share this page: What is this? this?

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