


## Challenging trigonometry problems

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If you see this message, it means that we are having trouble downloading external resources on our site. If you're behind a web filter, please make sure the domains no.kastatic.org and no.kasandbox.org unlocked. Richard's Trigonometry Challenge 6/9/99 On this page I present some simple but complex trigonometry problems. Its not calculus, and it's not rocket science, a simple right-angle trigger. All you need is a \$10.00 calculator that makes trigger functions. (But, if you're reading this, you probably already have a computer!) Get world recognition! Solve the problem! I will put out the names of the first few people who correctly answer every question. If enough people want to know, I'll even post solutions. Email reply to me. Be sure, and include an explanation of how you came to the answer, i.e. from which side and at what angle you connect to what formula. I won't take an answer without explanation. I inflict pain and suffering on my students with such things. Do you think you know enough math to be a machinist? Click here for #1 click here for the problem #2 Click here for the problem #3 Ok, well, I know what your thinking is . . . What's the point? The fact is that with a working knowledge of mathematics you can do the best parts. Click here for the problem #4 Click here for the problem #5 Click here for the problem #6 Click here for the problem #7 Click here for the problem #8 Click here for the problem #9 Try to solve it without iteration. (No one has complained about it too easily!) Click here for the problem #10 beatings will continue until morale improves! There are problems of trigonometry of the 10th grade and questions with answers and solutions. ProblemsFind x and H in the right triangle below. Find the lengths of all sides of the right triangle below if its area is 400. BH perpendicular to AC. Find x length BC ABC is the right triangle with a right angle on A. Find x length DC. The image below is AB and CD perpendicular to B.C., and the ACB angle size is 31. Find the length of the BD segment. The area of the right triangle is 50. One of his corners is 45. Find the length of the sides and the hypotenuses of the triangle. In the ABC's right triangle, tan (A) No. Find Sin (A) and cos(A). In the right triangle of ABC with an angle A is 90 , find the angle of B and C so that sin (B) and cos (B). The rectangle is 10 cm by 5 cm in size. The ABC side AB and the ABC's side triangle are 12 cm and 8 cm long respectively. The C angle is 59 degrees. Find the length of the side air conditioner. From the top of the building 200 meters high, the corner of the hollow to the bottom of the second building is 20 degrees. From the same point, the angle of ascent to the top of the second building is 10 degrees. Calculate the height of the second building. Carla rides vertically in a hot air balloon, right above point P on the ground. Carla notices a parked car on at an angle Depression 30. The balloon rises 50 meters. Now the angle of depression to the car is 35 degrees. How far is the car from point P? If the shadow of the building increases by 10 meters, when the angle of the sun's rays decreases from 70 to 60 degrees, what is the height of the building? Solutions to the above problems : 10 / tan (51) - 8.1 (2 significant figures)H - 10 / sin (51) - 13 (2 significant figures) Area (1/2) (2x) (x) 400 Gold for x: x Theorem 2 0 , 2x and 40Pythagora: (2x)2 (x)2 - H2H - x √ (5) - 20 √ (5)BH perpendicular to AC means that the triangles ABH and HBC right triangles are triangles. From here (39) - 11 / AH or AH - 11 / tan (39) HC No 19 - AH No 19 - 11 / tan (39) Pythagora theorem applies to the right triangle HBC: 11 2 - HC2 - x2solve for x and replace HC: x x th √ - 112 ( 19 - 11 / tan (39) 2 x 12.3 (rounded to 3 significant figures)Because angle A is correct, both triangles ABC and ABD right, and so we can apply the Pythagoras theorem.142 No. 102 - AD2 , 162 - 102 - AC2Also x - AC - ADH √ (162 - 102) - √ (142 - 102) - 2.69 (rounded to 3 significant digits)Use the ABC triangle, to write: tan (31 ) Theorem in the right triangle BCD to write: 92 - BC2 - BD2Solve higher for BD and replace BC: BD No √ - 9 ( 6 / tan (31 ) 2.13.4 (rounded to 3 significant figures) Triangle is correct and the size of one of its angles is 45; the third angle has a size 45 and has a size of 45 and Hence the triangle is correct and isosceles. Let x be the length of one of the sides and H will be the length of the hypotenuse. Area No (1/2)x2 x 50 , solve for x: x 10Y now use Pythagora, to find H: x2 and H2Solve for H: H No 10 √ (2) Let there be a side length opposite angle, b the length of the side adjacent to the corner A and h, will be the length of hypotenuse.tan(A) - opposite side / adjoining side - a/b 3/4 We can say that: 3k and b 4k, where k is proportional. Let's find the h.Pythagora theoremo: h2 (3k)2 (5k)2Solve for h: h 5ksin (A) angle B and C length of the side opposite angle C and h length hypotenuse.sin(B) - b/h and cos(b) - c/hsin(b) - cos (B) means b/h c/h, cos which gives c q b2 sides equal in length means that the triangle isoscele and angles B and C are equal in size 45. The chart below shows a rectangle with a diagonal and half of one of the corners with the size of x.tan (x) - 5/2.5 , x - arctan (2)large angle, made diagonal 2x - 2 arctan (2) - 127 (3 significant numbers) Smaller angle, made diagonal 180 - 2x. Use cosine law122 No 82 and x2 - 2 8 x cos (59)Solve the square equation for x: x 14.0 and x - 5.7x can't be negative, and so the solution x 14.0 (rounded to one decimal place). The chart below shows two buildings and angles of depression and elevation.tan (20) - H2 / LH2 - L x tan (10) - 200 x tan (10) / tan (20 euros) The height of the second building - 200 - 200 x tan (10) / tan (20 euros) More references and references to Trigonometry. Solve trigonometry problems. Free trigonometry questions with answers. 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