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Trigonometric ratios of special angles worksheet

If you see this message, it means that we cannot load external resources on our website. If you are behind a web filter, make sure that the *.kastatic.org and *.kasandbox.org domains are unlocked. In this worksheet, we practice evaluating trigonometry functions with special angles and how trigonometry expressions are evaluated.

Question 3: Calculation $4330240 - 270240 + 270135 \sin \cos \sec \csc \cos$. Q4: Find the value of $5(180 - \theta) - 2430240 + 48330 \sin \tan \sin$ given the value of $5\theta = -4 \cos$ where $0 < \theta < 180$. Q5: Find $\tan 43$. Question 6: Find the doctrine $\frac{\pi}{3}$. Q7: Find $\sin 76$. Question 8: Evaluate $\sin \cos \cot 150(-240) + 2.130240$. Q9: Find $\tan 74$. Question 10: Evaluate $\sin \cos \sin \cos 960(-210) + 150240$. Question 11: Find the value of $\sin \frac{\pi}{6}$. Q11: Find the value of $\sin \frac{\pi}{6}$. Q11: Find question 12: Find $\cos \frac{\pi}{4}$. A $\sqrt{32}$ B $-\sqrt{32}$ C 12 D $-\sqrt{22}$ E $\sqrt{2}$ Q13: Find $\sin 53$. A $-\sqrt{32}$ B $-\sqrt{2/3}$ D $\sqrt{32}$ E $\sqrt{22}$ Q14: Find $\sin(-690)$ calculator. Question 15: Find the value of \sin in 34 . A $-\sqrt{33}$ B $-\sqrt{22}$ C $\sqrt{2}$ D $\sqrt{33}$ E $\sqrt{22}$ Q17: Find $\cos > -2\pi/3$. Q19: Find the value of the product that received $\csc \cot \cot 2X + 2X = X$ value. A $-1 - \sqrt{2}$ B $2 + \sqrt{3}$ C $1 + \sqrt{2}$ D $-2 - \sqrt{3}$ Q20: Evaluate the $3 - 4330 \cos$. Q21: Evaluate $\cos \sin$. Q22: Find the $\tan \sin \cos$ value $\cos 30 + 40 + 7135$. Q24: Evaluate $\cos \cos \sin \sin \frac{\pi}{2} \frac{\pi}{3} \frac{\pi}{2} \frac{\pi}{3} \frac{\pi}{2} \frac{\pi}{3} \frac{\pi}{2}$. Q25: Look for $\sin \cos \sin 2\pi/3 \frac{\pi}{2} - 2\pi/3 \frac{\pi}{2}$. Problem 1: Evaluate the $\sin 45^\circ + \cos 45^\circ$. Problem 2: Evaluate $\sin 60^\circ \tan 30^\circ$. Problem 3: Evaluate the \tan at $45^\circ / (\tan 30^\circ + \tan 60^\circ)$. Problem 4: Evaluate $\tan 2 60^\circ - 2 \tan 2 45^\circ - \cot 2 30^\circ + 2 \sin 2 30$. Problem 5: Evaluate 4 $(\sin 4 30^\circ + \cos 4 60^\circ) - 3 (\cos 2 45^\circ - \sin 2 90^\circ)$. Problem 6: Evaluate $6 \cos 2 90^\circ + 3 \sin 2 90^\circ + 4 \tan 2 45^\circ$. Problem 7: Evaluate $4 \cot 2 45^\circ - \sec 2 60^\circ + \sin 2 60^\circ + \cos 2 60^\circ$. Problem 8: Evaluate $\sin 30^\circ \cos 60^\circ + \cos 30^\circ \sin 60^\circ$. Detailed answer key problem 1: Evaluate the $\sin 45^\circ + \cos 45^\circ$. Solution: $\sin 45^\circ = 1/\sqrt{2}$, $\cos 45^\circ = 1/\sqrt{2}$, $\sin 45^\circ + \cos 45^\circ = (1/\sqrt{2}) + (1/\sqrt{2}) = (1/\sqrt{2})(1 + 1) = \sqrt{2}/2 = \sqrt{2}/2$. The evaluation of \sin is 60° doctrine 30° . Solution: $\sin 60^\circ = \sqrt{3}/2$, $\tan 30^\circ = 1/\sqrt{3}$, $\sin 60^\circ \cos 30^\circ = (\sqrt{3}/2)(1/\sqrt{3}) = 1/2$. Problem 3: Evaluate the $\tan 45^\circ / (\tan 30^\circ + \tan 60^\circ)$. Solution: $\tan 45^\circ = 1$, $\tan 30^\circ = 1/\sqrt{3}$, $\tan 60^\circ = \sqrt{3}$, $\tan 45^\circ / (\tan 30^\circ + \tan 60^\circ) = 1 / ((1/\sqrt{3}) + \sqrt{3}) = 1 / (1 + 3)/\sqrt{3} = \sqrt{3}/4$. Problem 4: Evaluate $\tan 2 60^\circ - 2 \tan 2 45^\circ - \cot 2 30^\circ + 2 \sin 2 30$. Solution: $\tan 2 60^\circ = (\tan 60^\circ)^2 = (\sqrt{3})^2 = 3$, $\tan 2 45^\circ = (\tan 45^\circ)^2 = (1)^2 = 1$, $\cot 2 30^\circ = (\cot 30^\circ)^2 = (\sqrt{3})^2 = 3$, $\sin 2 30^\circ = (\sin 30^\circ)^2 = (1/2)^2 = 1/4$, $3 - 2(1) - 3 + 2(1/4) = -2 + 1/2 = (-4 + 1)/2 = -3/2$. Problem 5: 4 rating $(\sin 4 30^\circ + \cos 4 60^\circ) - 3 (\cos 2 45^\circ - \sin 2 90^\circ)$. Solution: $\sin 4 30^\circ = (\sin 30^\circ)^4 = (1/2)^4 = 1/16$, $\cos 4 60^\circ = (\cos 60^\circ)^4 = (1/2)^4 = 1/16$, $\cos 2 45^\circ = (\cos 45^\circ)^2 = (1/\sqrt{2})^2 = 1/2$, $\sin 2 90^\circ = (\sin 90^\circ)^2 = (1)^2 = 1$, $1/16 + 1/16 - 3(1/2) - 1 = 1/8 - 3/2 - 1 = 1/8 - 6/4 - 4/4 = 1/8 - 10/4 = 1/8 - 5/2 = 1/8 - 25/8 = -24/8 = -3$. Problem 6: 6 $\sin 2 90^\circ + 3 \sin 2 90^\circ + 4 \tan 2 45^\circ$. Solution: $\cos 2 90^\circ = (\cos 90^\circ)^2 = (0)^2 = 0$, $\sin 2 90^\circ = (\sin 90^\circ)^2 = (1)^2 = 1$, $\tan 2 45^\circ = (\tan 45^\circ)^2 = (1)^2 = 1$, $6 \cos 2 90^\circ + 3 \sin 2 90^\circ + 4 \tan 2 45^\circ = 6(0) + 3(1) + 4(1) = 0 + 3 + 4 = 7$. Problem 7: 4 $\cot 2 45^\circ - \sec 2 60^\circ + \sin 2 60^\circ + \cos 2 60^\circ$. Solution: $\cot 2 45^\circ = (\cot 45^\circ)^2 = (1)^2 = 1$, $\sec 2 60^\circ = (\sec 60^\circ)^2 = (2)^2 = 4$, $\sin 2 60^\circ = (\sin 60^\circ)^2 = (\sqrt{3}/2)^2 = 3/4$, $\cos 2 60^\circ = (\cos 60^\circ)^2 = (1/2)^2 = 1/4$, $4(1) - 4 + (3/4) + (1/4) = 4 - (3+1)/4 = 4/4 = 1$. Problem 8: Evaluation of $\sin 30^\circ \cos 60^\circ + \cos 30^\circ \sin 60^\circ$. Solution: $\sin 30^\circ = 1/2$, $\cos 60^\circ = 1/2$, $\cos 30^\circ = \sqrt{3}/2$, $\sin 60^\circ = \sqrt{3}/2$, $(1/2)(1/2) + (\sqrt{3}/2)(\sqrt{3}/2) = (1/4) + (3/4) = (1+3)/4 = 4/4 = 1$. If you need other things in math, please use google custom search here. If you have any feedback on our math content, please email us at v4formath@gmail.com! always appreciate your feedback. You can also visit the following websites for different things about mathematics. WORD PROBLEMS HCF and LCM word problems Word problems simple equations Word problems linear equations Word problems quadratic equations Algebra word problems Word problems Trains Area and circumference word problems Word problems direct variation and inverse variation Word problems unit price Word problems unit speed Word problems compare standard units word problems converting metric units word problems Word problems simple interest Word problems complex interest Word problems type additional angles and additional angles word problems facts word problems Linear words word problems Ratio and proportional word problems Time and work word problems Markup and markdown word problems Decimal word problems decimal word problems mixed fractions One step equation word problems Linear inequalities word problems Ratio and proportional word problems Time and work word problems sets and venn diagrams Word problems ages Pythagorean theorem word problems Percent is a number word problems Word problems Constant speed Word problems the average speed word problems sum the angles of a triangle 180 degrees OTHER TOPICS Gain and loss shortcuts Percent shortcuts Times table shortcuts Time, speed and distance shortcuts Ratiokés ratio shortcuts Domain and a number of rational functions and a number of rational functions with holes Calculated rational functions Obso rational functions with holes Reforming duplicate decimal places in fractional numbers Decimal representation of rational numbers Finding square root long division L.C.M method of time and work Translation of the word problems at algebraic expressions Remainder if 2 power 256 divided by 17 Remainder if 17 power 23 divided into 16 Sum all three digits can be divided into 16 Sum all three digits can be divided into 6 Sum all three digits can be divided into 7 Sum all three digits number can be divided into 8 To sum all three numbers formed using 1, 3, 4 Sum all three four-digit numbers formed non-zero digits Összeg all three four digits created using 0, 1, 2, 3 Sum all three four-digit numbers created based on 1, 2, 5, 6 copyright onlinemath4all.com SBI! 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Try the specific examples or type in your own problem and check the answer with step-by-step explanations. We welcome your feedback, comments and questions on this site or site. Please submit your feedback or questions via the Feedback page. Related pages lessons on trigonometry trigonometry trigonometry worksheets how to derive and memorize the trigonometry ratios of special angles: 30°, 45°, and 60°? A special angles chart shows how to derive trigonometric values of 30°, 45° and 60° from special triangles 30-60-90 and 45-45-90. Scroll down the page if you need more examples explanation of how to deduce and use the trig ratios for special angles. Trigonometry function values for special angles How to derive trigonometry function values of 30, 45, and 60 degrees and their radian rates. I collaborate with identities we discuss: $\sin \theta = \cos(90^\circ - \theta)$, $\cos \theta = \sin(90^\circ - \theta)$. Show Video Lesson How do we find Trig proportions at special angles? This video shows you how to find trig ratios at special angles: sine, cosine and tangent values of 0, 30, 45, 60 and 90 degrees. Scroll down the page to page 2. Show Video Lesson How to use trig ratios for special angles to find exact values of expressions? How to use trig ratios of special angles to find exact values of sine, cosine and tangent expressions of 0, 30, 45, 60 and 90 degrees? Example: Determine the exact values below: a) $\sin 30^\circ \tan 45^\circ + \tan 30^\circ \sin 60^\circ$ b) $\cos 30^\circ \sin 45^\circ + \sin 30^\circ \tan 30^\circ$ Show Video Lesson How to remember trig ratios at special angles? The Finger Trick of Trigonometry If we insist that students memorize the values of the sinus and cosine at the basic angles of 0, 30, 45, 60 and 90 degrees, then here's a cute little trick for this use of fingers on hand. Show Video Lesson Cool Pattern For Trig Special Angles The pattern will help you remember the sinus and cosine special angles in the first quadrant. 0, 30, 45, 60, 90 degrees. Show Video Lesson How do we rate Trig features special angles? An easy way to use the right triangle and label sides is to find sin, cos, tan, csc, sec at special angles, and multiples of angles of 90°. That's part one. Scroll down the page to page 2. Example: Find $\cos 90$, $\tan 90$, $\sin 630$, $\sin 135$, doctrine (-405), $\sin 210$, doctrine (-30). Show Video Lesson Trigonometric Functions of Special Angles, Part 2 Example: Find $\cos 300$, $\csc 180$, $\sin 1305$, $\sec(-210)$, $\csc 750$, $\cos 270$, $\sin(-420)$. Show Video Lesson Try the free Mathway calculator and problem solver below to practice a variety of math topics. Try the specific examples or type in your own problem and check the answer with step-by-step explanations. We welcome your feedback, comments and questions on this site or site. 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