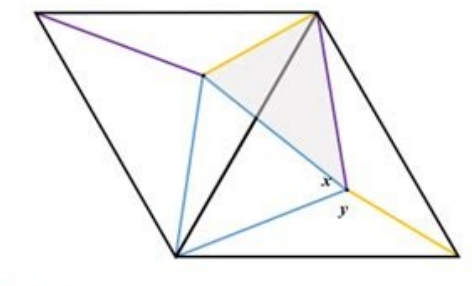


I'm not robot!

Solving Trig Problems with Multiple Angles – General Solutions		
$\tan(3\theta) = \sqrt{3}$ $3\theta = \frac{\pi}{3} + \pi k$ $3\theta = \frac{4\pi}{3} + \pi k$ Note that (by looking at Unit Circle) this can be simplified to $3\theta = \frac{\pi}{3} + \pi k$ $\left\{ \theta \mid \theta = \frac{\pi}{9} + \frac{\pi}{3}k \right\}$	$2\cos(3x) + \sqrt{3} = 0$ $\cos(3x) = -\frac{\sqrt{3}}{2}$ $3x = \frac{5\pi}{6} + 2\pi k$ $3x = \frac{7\pi}{6} + 2\pi k$ $x = \frac{5\pi}{18} + \frac{2\pi}{3}k$ $x = \frac{7\pi}{18} + \frac{2\pi}{3}k$ $\left\{ x \mid x = \frac{5\pi}{18} + \frac{2\pi}{3}k, x = \frac{7\pi}{18} + \frac{2\pi}{3}k \right\}$	$\sqrt{2}\sin\left(\frac{\theta}{2}\right) - 2 = 0$ $\sin\left(\frac{\theta}{2}\right) = \frac{2}{\sqrt{2}} = \sqrt{2}$ $\left\{ \cos\left(\frac{\theta}{2}\right) = \frac{\sqrt{2}}{2} \right\}$ $\frac{\theta}{2} = \frac{\pi}{4} + 2\pi k$ $\frac{\theta}{2} = \frac{3\pi}{4} + 2\pi k$ $\theta = \frac{\pi}{2} + 4\pi k$ $\theta = \frac{3\pi}{2} + 4\pi k$ $\left\{ \theta \mid \theta = \frac{\pi}{2} + 4\pi k, \theta = \frac{3\pi}{2} + 4\pi k \right\}$
$\sec\left(\frac{\theta}{3}\right) = 5$ $\cos\left(\frac{\theta}{3}\right) = \frac{1}{5}$ $\frac{\theta}{3} = \arccos\left(\frac{1}{5}\right) + 2\pi k$ $\theta = 3\arccos\left(\frac{1}{5}\right) + 6\pi k$ $\left\{ \theta \mid \theta = 3\arccos\left(\frac{1}{5}\right) + 6\pi k \right\}$	$2\sin^2(2x) = 1$ $\sin^2(2x) = \frac{1}{2}$ $\sin(2x) = \pm\frac{1}{\sqrt{2}} = \pm\frac{\sqrt{2}}{2}$ $2x = \frac{\pi}{4} + 2\pi k$ $2x = \frac{3\pi}{4} + 2\pi k$ $x = \frac{\pi}{8} + \pi k$ $x = \frac{3\pi}{8} + \pi k$ $\left\{ x \mid x = \frac{\pi}{8} + \pi k, x = \frac{3\pi}{8} + \pi k \right\}$	$\tan\left(\frac{\theta}{2} + \frac{\pi}{3}\right) = -1$ $\frac{\theta}{2} + \frac{\pi}{3} = \frac{3\pi}{4} + \pi k$ $\frac{\theta}{2} + \frac{\pi}{3} = \frac{7\pi}{4} + \pi k$ $\frac{\theta}{2} = \frac{5\pi}{12} + \pi k$ $\frac{\theta}{2} = \frac{23\pi}{12} + \pi k$ $\theta = \frac{5\pi}{6} + 2\pi k$ $\theta = \frac{23\pi}{6} + 2\pi k$ $\left\{ \theta \mid \theta = \frac{5\pi}{6} + 2\pi k, \theta = \frac{23\pi}{6} + 2\pi k \right\}$

Creative solution: rotate the triangle 60 degrees from a vertex!
 This will be the triangle, and we will be able to solve for its angles...



Name : _____ Score : _____
 Teacher : _____ Date : _____

Solving Right Triangles

Find the side indicated by a variable. Round to the nearest tenth.

1) f = _____ 2) y = _____

3) o = _____ 4) o = _____

5) j = _____ 6) v = _____

7) v = _____ 8) f = _____



The three stars flag is rectangular and has a width-to-length ratio of 2:3. What of the following can be used to find the length of a three stars flag with a width of 28 inches?

- A. $2 \cdot 28 = 3 \cdot l$
- B. $\frac{2}{3} = \frac{l}{28}$
- C. $\frac{2}{3} = \frac{28}{l}$
- D. $2 \cdot 28 = 3 \cdot l$

Geometry problem solving questions.

Faced with a tough decision that needs to be made quickly, most leaders' command-and-control instincts kick in. They are often wrong. In a world changing at an extraordinary pace, expecting a leader under pressure to make the call alone is to overlook the talent in the team. The better answer is quick-fire collaboration. Today's economy demands that value be extracted from the interdependencies within a team. The real challenge of rapid decision-making is to adopt behaviors and practices that accelerate team collaboration. Rapid, collaborative decision-making is at the heart of the principle I call co-elevation. By definition, co-elevation happens when a team is committed to the growth of the business-- and one another. They go higher, together. They don't just co-exist. When team members merely co-exist, and collaboration is the exception rather than the rule, attitudes of resistance and resentment often take hold. Co-elevating teams prosper because they share the weight of the toughest decisions. (You can find tools and encouragement at coelevation.com.) One symptom of a team struggling to collaborate is meetings being used for report-outs. If your best people meet to read out reports rather than to solve problems, you are wasting the most valuable resource you have. Collaborative problem-solving (CPS) changes that by breaking down group conflict avoidance and encouraging candor. CPS takes a single, business-critical question and makes it the focus of a 60-to-90-minute meeting. You need to craft the question carefully. It could be about upside potential. It could be about mitigating downside. Everyone preps by drawing in data or insight from their wider teams. Everyone is also clear on who will make the final decision, and who "owns the question." The aim isn't consensus--far from it. The aim is robust dialogue. If that's the setup, there can be no resentment if one idea is picked instead of another. But the most powerful element of CPS is the breakout. For half of the session, the team breaks into small groups of three or four people to discuss the question and report back. In these small groups, people have more courage. They will self-critique and weed out weaker ideas. The temporary tribes that form in the breakout rooms establish a bond that would make people lose face if they watered down their discussion too much. This kind of collaboration is action-oriented. Eric Starkloff, CEO at National Instruments, who consistently deployed CPS with his team at the beginning of the Covid-19 pandemic, told me recently, "The one change that's been the most tangible to me has been the ability to escalate and make critical business decisions faster, and that stuck more, because the process of doing it is collaborative and therefore the buy-in is higher." Entrepreneurial companies are rightly concerned that collaboration suffers in a remote environment. But going remote is no excuse to stop collaborating. Tools like Zoom make it easier than ever to create CPS cycles unencumbered by moving chairs and switching rooms. It's vital, right now, that these kinds of concerns are heard. We collaborate because inclusion leads to innovation. Diversity of perspective enriches discussion and inspires breakthrough thinking. With CPS, collaboration can be fast, and with co-elevation, leaders don't have to carry the weight of tough decisions alone. Related Pages Geometry math problems involving area Area Formula Geometry math problems involving angles More Algebra Word Problems Geometry word problems involves geometric figures and angles described in words. You would need to be familiar with the formulas in geometry. Making a sketch of the geometric figure is often helpful. Geometry Word Problems Involving Perimeter Example: A triangle has a perimeter of 50. If 2 of its sides are equal and the third side is 5 more than the equal sides, what is the length of the third side? Solution: Step 1: Assign variables: Let x = length of the equal sides Sketch the figure Step 2: Write out the formula for perimeter of triangle. P = sum of the three sides Step 3: Plug in the values from the question and from the sketch. 50 = x + x + x + 5 Combine like terms 50 = 3x + 5 Isolate variable x 3x = 50 - 5 3x = 45 x = 15 Be careful! The question requires the length of the third side. The length of third side = 15 + 5 = 20 Answer: The length of third side is 20. Geometry Math Problem involving the perimeter of a rectangle The following two videos give the perimeter of a rectangle, a relationship between the length and width of the rectangle, and use that information to find the exact value of the length and width. Example: A rectangular garden is 2.5 times as long as it is wide. It has a perimeter of 168 ft. How long and wide is the garden? Show Video Lesson Example: A rectangular landing strip for an airplane has perimeter 8000 ft. If the length is 10 ft longer than 35 times the width, what is the length and width? Show Video Lesson Examples of perimeter geometry word problems This video shows how to write an equation and find the dimensions of a rectangle knowing the perimeter and some information about the length and width. Example: The width of a rectangle is 3 ft less than its length. The perimeter of the rectangle is 110 ft. Find the dimensions. Show Video Lesson Perimeter Word Problems Example: The length of a rectangle is 7 cm more than 4 times its width. Its perimeter is 124 cm. Find its dimensions. Show Video Lesson Geometry Math Problem involving the perimeter of a triangle The following two videos give the perimeter of a triangle, a relationship between the sides of the triangle, and use that information to find the exact value or values of the required side or sides. Example: Patrick's bike ride follows a triangular path, two legs are equal, the third is 8 miles longer than the other legs. If Patrick rides 30 miles total, what is the length of the longest leg? Show Video Lesson Example: The perimeter of a triangle is 56 cm. The first side is 6 cm shorter than the second side. The third side is 2 cm shorter than twice the length of the first side. What is the length of each side? Show Video Lesson Try the free Mathway calculator and problem solver below to practice various math topics. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or enquiries via our Feedback page. Detailed solutions and full explanations to Geometry Problems for grade 9 are presented. Angles A and B are complementary and the measure of angle A is twice the measure of angle B. Find the measures of angles A and B. Solution Let A be the measure of angle A and B be the measure of angle B. Hence A = 2B Angles A and B are complementary; hence A + B = 90° But A = 2B; hence 2B + B = 90 3B = 90 B = 90 / 3 = 30° A = 2B = 60° ABCD is a parallelogram such that AB is parallel to DC and DA parallel to CB. The length of side AB is 20 cm. E is a point between points D and C. Find the length of DF such that the segment EF divide the parallelogram in two regions with equal areas. . Solution Let A1 be the area of the trapezoid ABEF. Hence A1 = (1/2) h (AE + DF) = (1/2) h (3 + DF) , h is the height of the parallelogram. Now let A2 be the area of the trapezoid EBCF. Hence A2 = (1/2) h (EB + FC) We also have EB = 20 - AE = 17, FC = 20 - DF We now substitute EB and FC in A2 = (1/2) h (EB + FC) A2 = (1/2) h (17 + 20 - DF) = (1/2) h (37 - DF) For EF to divide the parallelogram into two regions of equal area, we need to have area A1 and area A2 equal (1/2) h (3 + DF) = (1/2) h (37 - DF) Multiply both sides by 2 and divide them by h to simplify to 3 + DF = 37 - DF Solve for DF 2DF = 37 - 3 2DF = 34 DF = 17 cm Find the measure of angle A in the figure below. . Solution A first interior angle of the triangle is supplementary to the angle whose measure is 129° and is equal to 180 - 129 = 51° A second interior angle of the triangle is supplementary to the angle whose measure is 138° and is equal to 180 - 138 = 42° The sum of all three angles of the triangle is equal to 180°. Hence A + 51 + 42 = 180 A = 180 - 51 - 42 = 87° ABC is a right triangle. AM is perpendicular to BC. The size of angle ABC is equal to 55 degrees. Find the size of angle MAC. . Solution The sum of all angles in triangle ABC is equal to 180°. Hence angle ABC + angle ACM + angle ACB = 180 - 90 = 55° Substitute angle ABC by 55 and solve for angle ACM angle ACM = 180 - 90 - 55 = 35° The size of angle MAC. . Solution The sum of all angles in triangle AMC is equal to 180°. Hence angle MAC + angle ACM + angle ACB = 180 - 90 = 90° Substitute angle ACM by 35 and solve for angle MAC angle MAC = 180 - 90 - 35 = 55° Find the size of angle MBD in the figure below. . Solution The sum of all angles in triangle AMC is equal to 180°. Hence 56 + 78 + angle AMC = 180 - 56 - 78 = 46° Angles AMC and DMB are vertical angles and therefore equal in measures. Hence angle DMB = 46° The sum of angles of triangle DMB is equal to 180°. Hence angle MBD + angle DMB + 62 = 180 Substitute angle DMB by 46 and solve for angle MBD. angle MBD + 46 + 62 = 180 angle MBD = 180 - 46 - 62 = 72° The size of angle AOB is equal to 132 degrees and the size of angle COD is equal to 141 degrees. Find the size of angle DOB. . Solution angle AOB = 132 and is also the sum of angles AOD and DOB. Hence angle AOD + angle DOB = 132° (I) angle COD = 141 and is also the sum of angles COB and BOD. Hence angle COB + angle DOB = 141° (II) We now add the left sides together and the right sides together to obtain a new equation, angle AOD + angle DOB + angle COB + angle DOB = 132 + 141 (III) Note that, angle AOD + angle DOB + angle COB = 180° Substitute angle AOD + angle DOB + angle COB in (II) by 180 and solve for angle DOB. 180 + angle DOB = 132 + 141 angle DOB = 273 - 180 = 93° Find the size of angle x in the figure. . Solution The interior angle of the quadrilateral on the left that is supplementary to x is equal to 180 - x The interior angle of the quadrilateral on the left that is supplementary to the angle of measure 111° is equal to 180 - 111 = 69° The sum of all interior angles of the quadrilateral is equal to 360°. Hence 41 + 94 + 180 - x + 69 = 360 Solve for x 41 + 94 + 180 - x + 69 = 360 384 - x = 360 x = 384 - 360 = 24° The rectangle below is made up of 12 congruent (same size) squares. Find the perimeter of the rectangle if the area of the rectangle is equal to 432 square cm. . Solution If the total area of the rectangle is 432 square cm, the area of one square is equal to 432 / 12 = 36 square cm Let x be the side of one small square. Hence the area of one small circle equal to 36 gives x2 = 36 Solve for x x = 6 cm The length L of the perimeter is equal to 4x and the width W is equal to 3x. Hence L = 4 x 6 = 24 cm and W = 3 x 6 = 18 cm The perimeter P of the rectangle is given by P = 2 (L + W) = 2(24 + 18) = 84 cm ABC is a right triangle with the size of angle ACB equal to 74 degrees. The lengths of the sides AM, MQ and QP are all equal. Find the measure of angle QPB. . Solution Angle CAB in the right triangle ACB is given by 90 - 74 = 16° Sides AM and MQ in size and therefore triangle AMQ is isosceles and therefore angle AQM = angle QAM = 16° The sum of all interior angles in triangle AMQ is equal to 180°. Hence 16 + 16 + angle AMQ = 180 Solve for angle AMQ angle AMQ = 180 - 32 = 148° Angle QMP is supplementary to angle AMQ. Hence angle QMP = 180 - angle AMQ = 180 - 148 = 32° Lengths of QM and QP are equal; hence triangle QMP is isosceles and therefore angle QPM is equal in size to angle QMP. Hence angle QPM = 32° Angle QPB is supplementary to angle QPM. Hence angle QPM = 180 - angle QPM = 180 - 32 = 148° Find the area of the given shape. . Solution The area of the given shape may be found by subtracting the area of the right triangle (red) from the area of the large rectangle (see figure below). . Sides of the right triangle (red) are given by 15 - 10 = 5 cm and 20 - 8 = 12 cm Area of given shape = 20 x 15 - (1/2) x 12 x 5 = 270 cm2 Find the area of the shaded region. . Solution The area of the given shape may be found by subtracting the area of the rectangle at the top left from the area of the large rectangle. Dimensions of the rectangle at top left length = 30 - 8 = 22 cm width = 15 - 4 = 11 cm Area of given shape = 30 x 15 - 22 x 11 = 208 cm2 The vertices of the inscribed (inside) square bisect the sides of the second (outside) square. Find the ratio of the area of the outside square to the area of the inscribed square. . Solution Let 2 x be the size of the side of the large square (see figure below). The area of the large square is (2 x) x (2x) = 4 x 2 The area of the inscribed square is y x y = y 2 Use of Pythagoras's theorem gives y 2 = x 2 + x 2 = 2 x 2 Ratio R of the area of the outside square to the area of the inside square is given by R = 4 x 2 / y 2 = 4 x 2 / 2 x 2 = 4 / 2 = 2 / 1 Answers to the Above Questions measure of A = 60 degrees, measure of B = 30 degrees length of DF = 17 cm measure of A = 87 degrees size of angle MBD = 55 degrees size of angle DOB = 93 degrees size of angle x = 24 degrees perimeter of large rectangle = 84 cm measure of angle QPB = 148 degrees area of given shape = 270 square cm area of shaded region = 208 square cm ratio of area of outside square to area of inscribed square = 2:1 More References and Links More Middle School Math (Grades 6, 7, 8, 9) - Free Questions and Problems With Answers More High School Math (Grades 10, 11 and 12) - Free Questions and Problems With Answers More Primary Math (Grades 4 and 5) with Free Questions and Problems With Answers Home Page report this ad

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