Equation of a circle problems with solutions pdf download full game

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Two prisoners dug a tunnel from their cell 80 feet to escape from prison. Where did they hide the dirt? This is one of the examples used by Roni Horowitz of the consultancy group SIT to show the advantages of a method called Systematic Inventive Thinking (SIT). The answer is that they hid the dirt in the tunnel. The prisoners stole nylon sacks from the prison bakery and each day they dug the tunnel and put the dirt into the sacks. At cell inspection times they pushed all the dirt bags back into the tunnel and tidied the cell. When the prisoners escaped the guards found a cell full of bags of dirt and an empty tunnel. ⌄ Scroll down to continue reading article ⌄ ⌄ Scroll down to continue reading article ⌄ It is a good example of one of the principles of SIT – look for the solution within the problem or its environment. The prisoners had very limited resources – but one of them was the tunnel itself. If we are given unlimited resources to solve a problem then we can always come up with something – and often it is expensive and over-engineered. When we have to use the limited set of resources contained in the problem and its immediate environment then we are forced to be more creative – and very often the result is a solution that is elegant, inexpensive and effective. Using the tunnel is a prime example. ⌄ Scroll down to continue reading article ⌄ ⌄ Scroll down to continue reading article ⌄ When Hiram Maxim went pigeon shooting he noticed two problems. One was the strong recoil of the rifle into his shoulder. The second was that he had to stop to reload the gun. He wondered if it was possible to use one problem to solve the other and by doing so he invented the machine gun. At the end of the first Gulf War fires were raging out of control in the Kuwaiti oil refineries. What could be used to put them out? One answer might have been sand. But a better solution was found. The pipelines that were normally used to pump oil from the refineries were used to pump water to the refineries. By using an existing resource and reversing the flow the problem was overcome. ⌄ Scroll down to continue reading article ⌄ ⌄ Scroll down to continue reading article ⌄ Engineers are accustomed to working in very constrained conditions. In the very early Volkswagen Beetle car there was a problem of how to provide the power needed for the windscreen washer. The ingenious solution that the engineers came up with was to use the air pressure from the spare wheel (which was in the front of the car) to power the water jet. But it is not just product engineers who can use internal resources in ingenious ways. In 2005 the IRA pulled off a major robbery at the Northern Bank in Belfast – they got away with £25m in banknotes. How could the authorities catch the criminals or stop them using the proceeds of their crime? They came up with a clever idea using one of the resources within the problem – the stolen banknotes. They changed the currency in Northern Ireland and reprinted all bank notes. Anyone holding old bank notes had to bring them in to be changed – and that is a big problem if you are holding millions of stolen banknotes. ⌄ Scroll down to continue reading article ⌄ ⌄ Scroll down to continue reading article ⌄ So how can you use this approach in your problem solving? One of the methods taught in Systematic Inventive Thinking is to break the problem down into a chain of unwanted effects. Now consider in turn each element in the problem or its environment and say to yourself – this element can be adapted to stop one of the unwanted effects and to break the chain. Then come up with ideas. By rigorously and imaginatively applying this technique you will often find an inventive solution. If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Learn Maths from the best First Lesson Free! Calculate the center coordinates and radius of the following circles, if applicable: The best Maths tutors availableExercise 2 Calculate the equation of the circle that has its center at (2, −3) and has the x-axis as a tangent. Exercise 3 Calculate the equation of the circle that has its center at (−1, 4) and has the y-axis as a tangent. Exercise 4 Calculate the equation of the circle which is centered at the point of intersection of the lines and and its radius is equal to 5. Exercise 5 Find the equation of the circle which is concentric to the circle with equation , and passes through the point (−3, 4). Exercise 6 A triangle with vertices A = (0, 0), B = (3, 1) and C = (5, 7) is inscribed in a circle. Calculate the equation of this circle. Exercise 7 The ends of the diameter of a circle are the points A = (−5, 3) and B = (3, 1). What is the equation of this circle? Exercise 8 Find the equation of the concentric circle to the circle which has a tangent of . Exercise 9 Determine the points of intersection for the circle with the following lines: Exercise 10 Determine the equation of the circle which has its center at C = (3, 1) and a tangent of . Exercise 11 Find the equation of the circle that passes through the points A = (2, 1) and B = (−2, 3) and has its center on the line: . Exercise 12 Calculate the equation of the circle that passes through the point (0, −3), whose radius is and whose center is on the angle bisector of the first and third quadrants. Calculate the center coordinates and radius of the following circles, if applicable: 1. , therefore, , therefore, Hence, C= 2. , therefore, , therefore, Hence, C= It is not a circle. 3. Dividing the whole equation by 4: , therefore, , therefore, Hence, C= Calculate the equation of the circle that has its center at (2, −3) and has the x-axis as a tangent. In this question, the circle has an x-axis as a tangent. A tangent is a straight line that touches a curve. This means that the "y coordinate" will be zero. We will use the distance formula to find the radius. Currently, we have 2 coordinates which are: C(2,-3), T(2,0) Plugging the values of C and T: Since we know the value of the radius and center of the circle, the equation will be: Calculate the equation of the circle that has its center at (−1, 4) and has the y-axis as a tangent. This time, the circle has the y-axis as a tangent. This means that the x coordinate will be zero. Hence, we have 2 coordinates which are C(-1,4) and T(0,4). We will use the distance formula again to find the value of the radius. Plugging the values of C and T: Since we know the value of the radius and center of the circle, the equation will be: Calculate the equation of the circle which is centered at the point of intersection of the lines and and its radius is equal to 5. ->Equation 1 ->Equation 2 Now both equations will be solved simultaneously to find the value of x and y. The value of x and y will be the coordinate of the center of the circle. After solving simultaneously, the center of the circle will be C=(0,-1). There is another method to solve this question. However, you still need to find the center by solving the linear equations simultaneously. Below is another method to find the equation of the circle. Find the equation of the circle which is concentric to the circle with equation , and passes through the point (−3, 4). We will find the center of the circle from and then we will find the radius with the help of distance formula. In the end, we will put all the values in the general equation or standard equation to find the equation of the circle. Compairing the above equations to find the value of g and f: Putting the values of a, b, and r: Finding the equation of the circle by using the standard equation: A triangle with vertices A = (0, 0), B = (3, 1) and C = (5, 7) is inscribed in a circle. Calculate the equation of this circle. We will insert all the coordinates in the standard equation to find the value of g, f, and c. Once we find the values of g,f, and c then we will insert all those values in the standard equation to develop the equation of the circle. Standard Equation= Plugging the coordinates of A: Plugging the coordinates of B: Plugging the coordinates of C: After solving the above equations, we will get: Putting all the values in the general equation of the circle: The ends of the diameter of a circle are the points A = (−5, 3) and B = (3, 1). What is the equation of this circle? We will find the diameter with the help of the distance formula. To find the radius, we will divide the diameter into half. Furthermore, if we find the midpoint of the AB line, that will be the center of the circle. We will use the midpoint formula to find the coordinates of the center of the circle. Finding the diameter: Since, midpoint is the center of the circle, therefore, we will declare midpoint as the center of the circle: Plugging the value of C and r in the standard equation: You can also find the equation from the general equation of the circle: Plugging all the values of the g, f, and c in the general equation: Find various Maths tutors on Superprof. Find the equation of the concentric circle to the circle which has a tangent of . Plugging all the values in the general equation: Determine the points of intersection for the circle with the following lines: -> Equation 1 -> Equation 2 After solving the above equations simultaneously, we will get: The factors of the above equation will be: Putting the values of y in the x equation to find values of x: So our coordinates are: 2. -> Equation 1 -> Equation 2 After solving the above equations simultaneously, we will get: The factor of the above equation will be: Putting the values of y in the x equation to find values of x: So our coordinate are: 3. -> Equation 1 -> Equation 2 After solving the above equations simultaneously, we will get: Determine the equation of the circle which has its center at C = (3, 1) and a tangent of . Since we know the coordinate of the center of the circle and value of the radius, therefore, we can create the equation of the circle: Hence, Find the equation of the circle that passes through the points A = (2, 1) and B = (−2, 3) and has its center on the line: . Plugging the coordinates of A in the standard equation: Since both radii are the same, therefore: -> Equation 1 -> Equation 2 After solving the above equations simultaneously, we will get: Plugging the value of a and b in the standard equation to find the radius: Calculate the equation of the circle that passes through the point (0, −3), whose radius is and whose center is on the angle bisector of the first and third quadrants. For b=-1: , For b=-2: , The platform that connects tutors and students

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