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June 2019 geometry regents answers part 3

Below are some of the multiple questions from the New York Geometry Regents exam in June 2019. June 2019 geometry, part III Each correct answer is worth up to 4 credits. Partial credit is available. The work must be shown. Correct answers without work receive only 1 point. 32. Riley traced A(-1.6), B(3.8), C(6,-1) and D(1.0) to form a quadrilateral. It shows that Riley's quadrilateral ABCD is a trapezoid. [Using the axis set on the next page is optional.] Riley defines an isosceles trapezoid as a trapezoid with congruent diagonals. Use Riley's definition to prove that ABCD is not an isosceles trapezoid. Answer: The quadrilateral chart can help, so there's no reason not to. You already know it's a trapezoid, so if you make a mistake on the chart, it should be obvious enough to fix. In addition, the chart will tell you which two tracks to control. A trapezoid has a pair of parallel sides, and the parallel sides have the same slope. You can also prove that the other two sides are not parallel, with different slopes, but this is not necessary. AD: (6 - 0) / (-1 - 1) = 6/-2 = -3 a.C.: (-1 -8) / (6 - 3) = -9/3 = -3 d.C. || Bc. Riley's quadrilateral is a trapezoid because it has a couple of parallel sides. Then, use the distance formula to find the length of the diagonals. If they are the same, then it is an isosceles trapezoid. If there are not the same length, the trapezoid is not isosceles. AC: $\sqrt{(-1 - 6)^2 + (-1 - 2)^2} = \sqrt{49 + 49} = \sqrt{98}$ BD: $\sqrt{(8 - 0)^2 + (3 - 1)^2} = \sqrt{64 + 4} = \sqrt{68}$ AC $\neq$ BD, so trapezoid is not isosceles. 33. A child-friendly pool can be shaped by a cylinder. The pool has a diameter of 6 1/2 feet and a height of 12 inches. The pool is full of water at 2/3 of its height. Determine and indicate the volume of water in the nearest cubic foot pool. A cubic foot is equivalent to 7.48 gallons of water. Determine and declare, at the nearest gallon, the number of gallons of water in the pool. Answer: Half the diameter of 6.5 feet is 3.25 feet radius. Twelve inches is 1 foot, and 2/3 of this is 2/3 feet. $V = \pi * r^2 * h = (3.141592)(3.25)^2(2/3) = 22.122$ The pool contains about 22 cubic feet of water $22 * 7.48 = 164.56 = 165$ gallons of water. 34. 4 Nick wanted to determine the length of a windmill blade depicted below. It was at a point on the ground 440 feet from the base of the windmill. Using the surveyor's tools, Nick measured the angle between the ground and the highest point reached by the upper blade and found it to be 38.8°. He also measured the angle between the ground and the lowest point of the upper blade, and found that it was 30°. Determine and indicate the length of a blade, x, to the nearest foot. There are two right triangles. You need to find the opposite side (the height) of each of them. The difference between the two is the height of the blade, x. You know the adjacent, 440, 440, you're looking for the opposite, so you have to use tan for both of us. $\tan(30) = y / 440$ $y = 440 * \tan(30) = 254.034...$ $\tan(38.8) = z / 440$ $y = 440 * \tan(38.8) = 353.769...$ $353.8 - 254.0 = 99.8 = 100$ feet. Part IV A correct answer is worth up to 6 credits. Partial credit is available. 35. Quadrilateral MATHEMATICS, HM = AT, HT = AM, It is perpendicular to MEA, and HA is perpendicular to AT Ta Tests * HA = HE * TH Answer: I don't remember another time they asked you to prove something like that. Work backwards for a step here. If TA * HA = HE * TH then TA / TH = HE/HA. In other words, the parts are proportional. So you can show that two triangles are proportional, which will bring you here. Two triangles will have proportional sides if they are similar, and similar triangles have three pairs of congruent angles, but you just have to find two. StatementsMotive 1. Quadrilateral MATHEMATICS, HM = AT, HT = AM, HE is perpendicular to MEA, and HA is perpendicular to AT1. Given 2. HEA angle and TAH angle are right angles.2. Perpendicular lines form right angles 3. HEA angle = TAH3 angle. All right angles are congruent. 4. MATHEMATICS is a parallelogram4. A quadrilateral with two pairs of congruent sides is a parallelogram. 5. MA || Th5. Opposite sides of a parallelogram are parallel. (Defining parallelogram) 6. THA angle = Angle EAH6. Alternative interior angles. 7. HEA Triangle ~ TAH7 Triangle. Theorem AA 8. TA / TH = HE / HA 8. The corresponding sides of similar triangles are proportional. 9. TA * HA = HE * TH 9. Proportionally, the cross-products are the same. End of exam How did you do it? Comments and fixes are welcome. (I have many of the latter!) Below are some of the multiple questions from the August 2019 New York State Geometry Regents exam. Geometry of August 2019, Part III Each correct answer is worth up to 4 credits. Partial credit is available. The work must be shown. Correct answers without work receive only 1 point. 32. Triangle ABC is shown below. Using a compass and a straight line, construct the expansion of the B-centered ABC Triangle with a scale factor of 2. [Leave all signs of construction.] Is the image of the ABC triangle similar to the original triangle? Explain why. Answer: Starting at point B, open the compass to point A. Then, from point A, make an arc. Use the straight line to extend BA to the new arc. This line will be twice the length of BA. Repeat the process for BC. Finally, using the straight line, complete the triangle from the endpoints of the two new line segments built. The image is similar to the original triangle because a dilation retains the shape of the object. Therefore, angles are the same size and for theorem AA, two triangles are similar. 33. In the diagram below, triangle ABE = CBD triangle. Try: TRIANGLE AFD = TRIANGLE CFE Answer: You have to prove that those two small triangles are similar. You can see that angles A A C are equal from the original triangles. And the AFD and CFE angles are vertical angles. You have to have a couple of congruent sides. It is not known that AD = CE directly, but it is known that AB = CB and DB = EB due to the congruence of larger triangles. Therefore, if you subtract the smallest segment from the largest segment, you get the sides that we need to be congruent. Your proof would be something like this: StatementReason 1. Triangle ABE = CBD1 triangle. Given 2. Angle A = Angle C2. CPCTC 3. AFD angle = CFE3 angle. Vertical angles are congruent. 4. AB = CB; DB = EB4. CPCTC 5. AD = EC5. Subtraction postulate 6. AFD triangle = CFE/triangle>6. AAS 34. A cargo trailer, pictured below, can be shaped by a rectangular prism and a triangular prism. Inside the trailer, the rectangular prism measures 6 feet wide and 10 feet long. The walls that make up the triangular prism measure each 4 feet wide inside the trailer. The diagram below is of the floor, which shows the internal measurements of the trailer. If the internal height of the trailer is 6.5 feet, what is the total volume of the inside of the trailer, at the nearest cubic foot? Answer: Volume = Base area per height. The base has the shape of a pentagon, which, in this case, can be divided into a rectangle and a triangle. We have the base of the triangle, 6 feet; however, we have to solve by its height (lowercase h). We can use pythagoras' theorem for this. $32 + x^2 = 42$ $9 + x^2 = 16$ $x^2 = 7$ $x = \sqrt{7}$ (7) = 2.65 (approximately) Base area = (6)(10) + (1/2)(2)(2.65) = 67.95 Volume = Area * height = 67.95 * 6.5 = 441.675 = 442 cubic feet Part IV A correct answer is worth up to 6 credits. Partial credit is available. 35. The vertex coordinates of the TRIANGLE ABC are A(1,2), B(-5,3) and C(-6,-3). Demonstrate that Triangle ABC is isosceles [Using the axis set on the next page is optional.] Indicate the coordinates of point D so that the quadrilateral ABCD is a square. Prove that your ABCD QUADRILATERAL is a square. [Using the following set of axes is optional.] Answer: Two separate questions. First, to prove that ABC is isosceles, you'll have to show that two of the sides have the same length. You can assume from the second part of the question even before you start that it will be a right triangle, because that's the only way you'll be able to add another point and have a square. In addition, AB and BC should be the congruent sides. The second and third part are actually the same question. Once you have the square, you have to prove that it is a square. This is more rigorous than a simple explanation or justification. However, at this point you have already shown that two consecutive sides are congruent, so all this you have to do is show that the sides are parallel, making it both a parallelogram and a rhombus, and that there is at least one right angle, which makes a square. First part: Length of AB = $\sqrt{(-5 - 1)^2 + (3 - 2)^2} = \sqrt{37}$ BC length = $\sqrt{(-6 - -5)^2 + (-3 - 3)^2} = \sqrt{37}$ AB = BC, so triangle ABC is isosceles. (No reason to check the length of the air conditioning. Second part: To get from point A to B, you have to go down 6 to the left and to 1. (This can be seen if you do a graph or if you've processed the math above.) The CD should have the same slope, but to switch from C to D, you should go 6 right and down 1. So D should be (-6 + 6, -3 - 1) or D(0, -4). Third part: The slope of AB = -1/6. The SLOPE OF CD = -1/6 The slope of BC = (-3 -3)/(-6 - -5) = -6/-1 = 6 The slope of DA = (-4 - 2)/(0 - 1) = -6 / -1 = 6 AB || CD, AD || BC because they have the same tracks. AB is perpendicular to BC because their slopes are inverse enclosures (they have a product of -1). So angle B is a right angle. A quadrilateral with parallel opposite sides, with equal consecutive sides and a right angle must be a square. End of exam How did you do it? Comments and fixes are welcome. (I have many of the latter!) January 2020 August 2019 June 2019 January 2019 August 2018 June 2018 January 2018 August 2017 June 2017 January 2017 August 2016 June 2016 January 2016 August 2015 June 2015 Last Updated: 27 February 2020 2020

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