



1.) CONSIDERIA OF THE LIM EXIT POINS a. WILL THN b. WILL THN	NG A UNIT CO. DE + CIRCLE, RP WOULD ALL HOW TRUE!	POR A	WATION A	THE EQUIP AT THE E HL CADE. THE RA	HTIONS DINATES. DINATES. DIENOT, THE CINE.

After having worked on this question, there may be some things that you don't feel you understand yet. You may have asked some new questions of your own. In this writing assignment, you are simply asked to write out any unanswered questions that you have. Make the questions as clear and specific as possible, so other can understand what is on your mind.

This problem is very time consuming. There are many different steps involved in just solving (a). The slope must be calculated. igged into the equation of the line with coordinates of the ball to calculate poth crosses the 4-ans. Then, wong is the line and circle, solve y condinates. How can I aplain this procedure to a character of students without Confusing Hum?

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I was able to solve this question when I approached doing it from the start. Meaning, by assigning new variables, composing the equations, and finding $\chi^{2} + \eta^{2} = r^{2}$ e (xiv) $y = \frac{t}{x} x + t$ (-KO) The entering point and exiting point of X-coordinates. X = -1 or $-\frac{t^2 + r^2}{r^2 + r^2}$ However, I had a trouble of making connection between my work, $\frac{-t^2+r^2}{r^2+t^2}$, and the previous work, -t2+1 Maybe, I should have used a different variable, T, enstead of the same t. I have no further question.

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AS I UNDERSTAND IT WE HAVE SHOWN HOW A CIRCULAR GREEN WITH A RADIUS OF I PRODUCES A RATTONAL SOLGTION FOR BOTH "X" AND "Y" COORDINATES, WE ACCOMPLISHED THIS BY DEFINING A POINT "E" WHERE THE BALL CROSS &S THROUGH THE Y-AXIS, WE THEN GENERALIZED & IN TERMS OF a AND "b" AS THE STARTING COORDINATES (a, b) AND t= at1. I AM UNABLE TO DEMONSTRATE THE RATIONAL SOLUTIONS FOR THE GENERAL CASE OF A CIRCLE WITH RADIUS "T" AND DEFINIUG & IN TERMS OF "a", "b", AND" r". My QUESTION WOULD BE HOW TO ACCOMPLISH THIS, HOW CAN I DEFINE THE BALL'S LINEAR TRAJECTORY THE CTRCLES GENERAL FORM, AND THE "X" AND "Y" SOLUTIONS REING RATION AL WITH ONLY VARIABLE"X"Y" "G" "B" AND "I'WHERE "A" AND " B" ARE THE X- AND Y-COORDDAY OF THE STARTING POINTS "IS THE RADIUS OF THE CIRCLE, AND "X" AND Y TRE THE INPUT AND OUTPUT OFTHE FUNCTIONS ON THE PLANE

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Honestly cl don't even know where to begin. che sknow we home a circle with the radius of 35 ord there is a ball whose path crosses the cucufuerece of the circle. Why are we investigating lational ord instional onswers? Where did stope come into play in the problem? How does scale factor play into the problem? What if you change the origin to be the first what if you change the origin to be the first intersection of the ball with the circumferer?

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you have. Make the questions as clear and specific as possible, so other can understand what is on your mind. Since This is Used to calculate Pythogorean tripples, how can we assure that the X and y coordinates, or logs, are interes instead of just rational Numbers?

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elenjoyed working on this problem yesterday with my fellow classmates, without them, I wouldn't know where to begin. They helped one uncleastend the steps to perform however it would be very different for me to reproduce the steps to this public. I'm not seve what questions to ask because my content knowledge in this area is limited. I don't know where to start. There are some very basic topics that could be related to 8th grade mater. Parts of this problem could be useful for teaching pythagorean theorem, radios and circumperence of a circle I'm glad to be experiencing mater as a new spiel of difficulty. Even though I don't always understand the material, it's helpful to be exposed to advanced math concepts

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BIG QUESTION:

How will this relate to eighth gradurs? I am having trouble figuring out how/what this problem is asking for or what to do with it. I can understand manipulating formulas to solve for other variables.

I guess I need to know how to relate It's work to the level I teach. The way that I im looking at it is lorishould say what can I take away from this, is I can relate circles, to Pythagorean heaven using circumference, radius, diameter. I can also use some pieces of this to teach/demonstrate manipulating of formulas to solve for specific variables.

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1.) Ofter we got our simplified equation,

0= (1+t²)x²+2t³x + (t²-1), now would we know
to use quadratic?

2.) At some point, when were trying to re-scale finding what t with a new radius, Why is the radius negative?

3.) How can I make this useful in midale School? (How can I make it simpler?)

4.) How could you change the situation to make it more interesting for students to get involved?

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I am unsure that I would be able to show anyone else how to come to the same conclusions We have.

How could I change this to make it more simple for my Students to understand?

thou could I build up their knowledge and critical thinking skills that would apply to problems like this?

- What is the general instructional concept that I could use (or transfer) into my classroom?
 - of have my mathematical questions, so what do I do next? (Oh sorry, this is not true)
 - What is the relationship between the points of the line and their intersection into the circle, that allows the points to always be rational values?

At what grade level or mith class would. I introduce this golf problem to a thef school Tudent?
I introduce this golf problem to a Huff School
Muderat?

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you have. Make the questions as clear and specific as possible, so other can understand what is on your mind. How can you determine whether or not I Pythagorean Triple is present in the solution?

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I have difficulty understanding the process from a general solution to a particular case with a fixed radius/points. How do we relate Pytagorean primitive triplets with the rationality for Z in our problem?

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1) I never would of saw using substitution to do the quadratic equation How did you know the do that? *) @ what are one level ground students be We to work this devel problem? *) How would you relate this problem to the students to keep them interested?

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Dhowidid you get s(a,b) then t= a+1?

2) what would be a good way to teach solving with constants? (ie when we solved with t)

3) How can I apply this way of problem solving to my classes?

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Demonstration once we changed our circle from a roalus of 35 to a radius of 1 and more rewrite our linear equation as $y = \pm (x+1)$ I realized I was very confused. How did we come to true linear equation? a) why did we not solve using our x = -1? Or was it to confirm an answer we already knew?

3) Where did $t = \frac{b}{a+1} = \frac{b}{a+r}$ come from? Why?

4) How could I use this in my high school dossoom?