Start. Cities of fire. Decide. We are using. Qualitative. No. The right.
So once we understand this. Sorry.
So this post understand this. Suggests this point. Such that it makes a right angle inside it. Ohh that it says. They're coordinating this. Those. What's the cosine of this?
So the question is forced.
So what do we know? We do our scanner product. What is the value of the cosine of this? What do you think?
So you can see this bar. Upon bar. 25 which will. Skate. 45 here.
So far. This. 90 degree the reason is not.
So if I. What are you doing? Stupid.
So if I use this information, I know. Some of these values. The value of. Of course. Because of.
So what I wanna do is. What do we know about this? Sign.
So if I go. Sign up. 36 Alright,
So I can say using this as standard formula. Sticks. Given three points, position with their. The question that you asked is. What is the condition? Points of.
So it is called the first point is. When you are in the position. That is not the point. Cities. First of all I need right? You see, you see. What will be the expression for this? We have done several things going through all the steps. This.
So then you just subtract appropriate jobs. This person. Just really quiet. Said my wife. First Source 1 - 4. Find this one. Minus 6. If you have seen. We have already seen that one vector will be a multiple of the first vector. That is, let us say. Already seen. No. What will be the value of first of all if Q is equal to 1 then I have nothing to do because the points B&C are like. They are.
So my main question comes from. How to analyse the case is not equal to. We are not going to. Hey Cortana. Certification. Yeah. What? If this is true. I'm still gonna coordinates. First I will find the coordinates for minus one. This makes everything the way to say clear times. Why is the change component minus Y? Minus 8 * 1 + 1. The last 24 days. Why does this equal to minus 3? Must be great. Is equal to 0. Just something equal to zero in the previous situation. Subscribe what do you mean? In place. This way. Right? Weights. Now you can find this present for this using. Because I want to find the context for quality. The two vectors are coordinating this. If there is equal to 1, then they are. PNC are just the same point
So we don't have to worry about. What is
So then I have a condition of this form X - 1 form X + 1 is equal to Y upon 1 + 1. This is the condition for the polarity. Even further simplify this condition and what you will get this. Or and all these things happen. Or the points seem to be calling in these two conditions must be satisfied. The next. The next. Coordinates. The problem.
So I don't know what these vectors are, but I have been given linear combinations of these vectors in terms of standard coordinate system. 1st, If you observe these two equations is really easy to see, they are all high and. Stupid. It's basically the system of equations,
So if I add simply add these two equations or they will get this 33 bar. I do. Is nothing. State you are. Now if I can get a bar minus 2 bar, then I think my problem is solved and I can actually evaluate what is. Do so. Correcting the second equations of the 1st. If I do that, then I'm gonna get. People. It's equal. Will become plus. 1st. Bar minus 2 bar is equal to so. I know that you bought it first. The body. Evaluate. This is abuse. Because I want to find the cosine of that, we have to take a dot product.
So I will take a dot product of these two equations. These two vectors. Four times are not. Is equal to. This is. By one point. Turned out. You are square. 36 6. 4612 cost start. Quarter such that. Things. 6. For which these cars for all service have. This also leads. Dot product. These two. It might cost you. North Florida inside. Inside minus 16. It's. 6. The dot product. It's. Six weeks. See things?
So why? Upon so. See spread. Of course, the spirit. 1st. 3630 36 questions.
So now they want this case vectors to make an optimizer,
So to pick the optimal condition. Do you want? Mostly. Raise this. How do you use these two participants that if this is this is the condition that needs to be satisfied. That means this particular term should always be distance. See square. It's minus. +6. Sears let's. 6:45 produce the strong findings of. For all values of things. For all things. No, if you look at the denominator cannot be negative because this is expired. What is the value of X or what is the value of the denominator cannot be needed,

So the only term that can be negative BC square is square plus 6CC X. Assistance. When they stop.

So it's just the quadratic equation we have already seen in the theory of quadratic equations. This term can be negative if C is less than zero in the conjunction with some of the kind of discriminant property.

So that leads us to the conclusion it seems that. Which is 6 ^2 - 46 six 6 minus. This circuit. Order

So we are actually citizens. It's important. This forces this condition. Sees this. You simplify this

So it can be 36 six square, minus 48. Sorry, it's just. Did you see that? Well, also we discussed this at $3600.48

So I can throw out 12

So it will.

So this doesn't have any meaning anyway. Cities less than 0. Use this.

So what this course is assist? Such a sport? This quantity is negative. Deposit but in order to have this spell doesn't make any difference, but she is less than zero,

So this quantity in order that this quantity is appealing to my PC Plus four should be posted. Forces. Sees this. That you. Do you see greater than 4? This. Use of the same or different. The angle will be owned by. 4 by 8. This is not. The device you want to enter. This is amazing.

So first I wanted. Since they're for all real values of things. Do that.

So you can order that these vectors form an obvious. Post data.

So we just evaluated cost. Remember, if you cannot take cross product because the value of scientific data is always positive. Just that my dream 025.

So here you have to take the dot product

So we have taken the dot product divided by the respective vectors and then we came up with and use them. Because of that, we have decided that this particular requirement expression should be less than zero. Once this expression is less than 0. Always positive, which therefore only reduces that this expression. Those are using the theory of quadratic equations. We have expanded these conditions, should be satisfied and therefore. Minus 4 by 3. For the next. Starting to see. Interesting. Problem.

So if they are. It's. They will not protect you. You bought and we bought our. That means more. Equal to. Now if I take the dot product would be limited. 64 for you. Why does? This condition. Will be equal to 1 that means. That means 5. Similar things with people 5 - 8. 600 this. The other dot. This is my mistake. 3356 equal to.

So what I get is R dot P bar is equal. Where do you buy? Cost. Application. See that. Yes. It's just that. Here. Product is not very smart. For example, let us start with this. Let us take the first power minus. You know this term is this. You also know this is equal to. Therefore this must be. What is value? Also I know.

So 1 + 1 two

So it is 2 and two one. If you look at this then what we have is 1 - 1 - R dot. This. One way to see. This one is downloading. This cannot be greater than one because a bar dot B.

So if you add these three dots. Let us create that. Let's see. You will get a similar expression. This. Watch this. Cost product cost product. Product just. Wireless

So find is heavily used this inequality. It's just that. I used to see. Minus 2 + 2 * 3. 66 But there is something hidden here,

So this is, this is definitely the upper bound. But this is not the best possible upper bound. I will try to find this possible by using the condition of this form. The bar press bar. This. All right? Cars.

So working with. All these are one of these.

So what we have actually service. Times. Just. Wireless Bluetooth. It's just this. I got the number to be equal. 50s. Please. Is this working? Doing just received this. This kills me. There's a far superior than what they were bound by. If you look at this particular expression, you can see we have actually curved some range finders, which can be formed. Quotes this world. Product problem. At the start. Anybody? See. Properties vary. Thought. Which is equal to. Then you will be selected. Minus. Of course. Sometimes support because the bar is equal to 0 is equal to a bar dot C bar, that means. People. The cross product. Plus this cross product will lie in a frame. It's our lives that. Nearby. Gross product.

So you understand this. Can you do 5 little bit? Can you follow? Pretty easy. But it's a family. Therefore, if I take the magnitude of that should be equal. Eight times. Of

course. You are. I think you want. Now it is given to me that. Between the Battersea Park is 5 by 6. 5 by 6. These are the actors. I know this is the thing. What is the value of sine 5 by 6? It's.
So it contains. What happens when my?
So what is equal to four times? The heart. Is equal to is equal to plus or minus two, but what? What is this we started with this expression. Therefore. Speed equal to plus minus 2. Says we have seen many examples of application of scalar product. The end of the class. That's cross product for this. Last season, more problems on scalar triple product. Thank you.