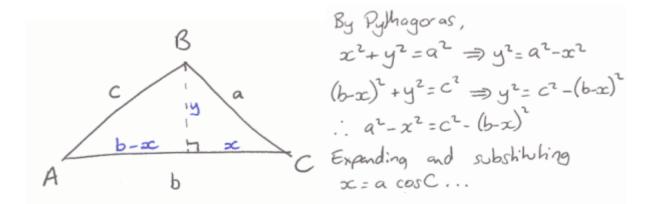


How can you work out the missing length of a triangle if you know the length of two sides and the angle between them?

Here is Student 1's attempt to find a formula for side c, if sides a and b and angle C are known:



Can you make sense of what they have done?

Can you complete their method to create a formula?



How can you work out the missing length of a triangle if you know the length of two sides and the angle between them?

Here is Student 2's attempt to find a formula for side c, if sides a and b and angle C are known:

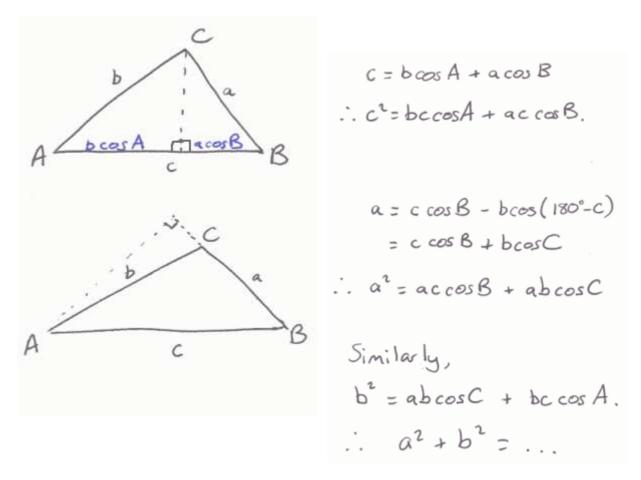
C has coordinates (0,0) A B has coordinates (a, 0) A has coordinates (b cos0, b sin0) The distance between two points (x, y,) and (x2, y2) $\sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$ So the length c is ...

Can you make sense of what they have done? Can you complete their method to create a formula?



How can you work out the missing length of a triangle if you know the length of two sides and the angle between them?

Here is Student 3's attempt to find a formula for side c, if sides a and b and angle C are known:



Can you make sense of what they have done?

Can you complete their method to create a formula?