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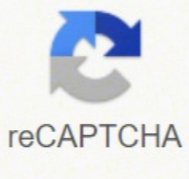**Open**

> Activity 7: What Solving Quadratic Equations by Completing
> the Square Means to Me…

Answer the following.

1. Karen wants to use completing the square in solving the quadratic equation $4x^2 - 25 = 0$. Can she use it in finding the solutions of the equation? Explain why or why not.

2. Do you agree that any quadratic equation can be solved by completing the square? Justify your answer.

3. If you are to choose between completing the square and factoring in finding the solutions of each of the following equations, which would you choose? Explain and solve the equations using your preferred method.
   a. $4x^2 - 20x = 11$
   b. $x^2 + 7x + 12 = 0$

4. Gregorio solved the equation $2x^2 - 8x + 15 = 0$. The first few parts of his solution are shown below.

$$2x^2 - 8x + 15 = 0 \;\rightarrow\; 2x^2 - 8x + 15 - 15 = 0 - 15$$
$$2x^2 - 8x = -15$$
$$\boxed{\frac{1}{2}(-8) = -4 \,;\, (-4)^2 = 16}$$
$$2x^2 - 8x + 16 = -15 + 16$$

   Do you think Gregorio arrived at the correct solution of the equation? Justify your answer.

5. An open box is to be formed out of a rectangular piece of cardboard whose length is 8 cm longer than its width. To form the box, a square of side 4 cm will be removed from each corner of the cardboard. Then the edges of the remaining cardboard will be turned up.
   a. Draw a diagram to illustrate the given situation.
   b. How would you represent the dimensions of the cardboard?
   c. What expressions represent the length, width, and height of the box?
   d. If the box is to hold 448 cm³, what mathematical sentence would represent the given situation?
   e. Using the mathematical sentence formulated, how are you going to find the dimensions of the rectangular piece of cardboard?
   f. What are the dimensions of the rectangular piece of cardboard?
   g. What is the length of the box? How about its width and height?

6. From 2006 through 2012, the average weekly income of an employee in a certain company is estimated by the quadratic expression $0.18n^2 + 6.48n + 3240$, where n is the number of years after 2006. In what year did the average weekly income of an employee become Php3,268.80?
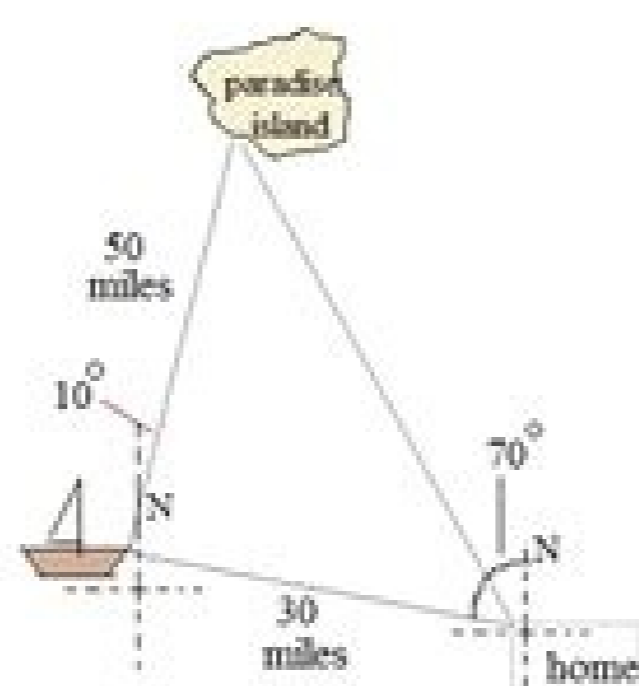
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7) Given: $\angle A = 40$
$a = 8$
$b = 11$

   Find: $\angle B =$
   $\angle C =$
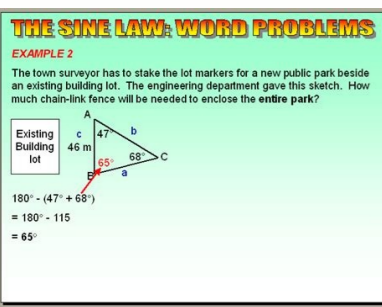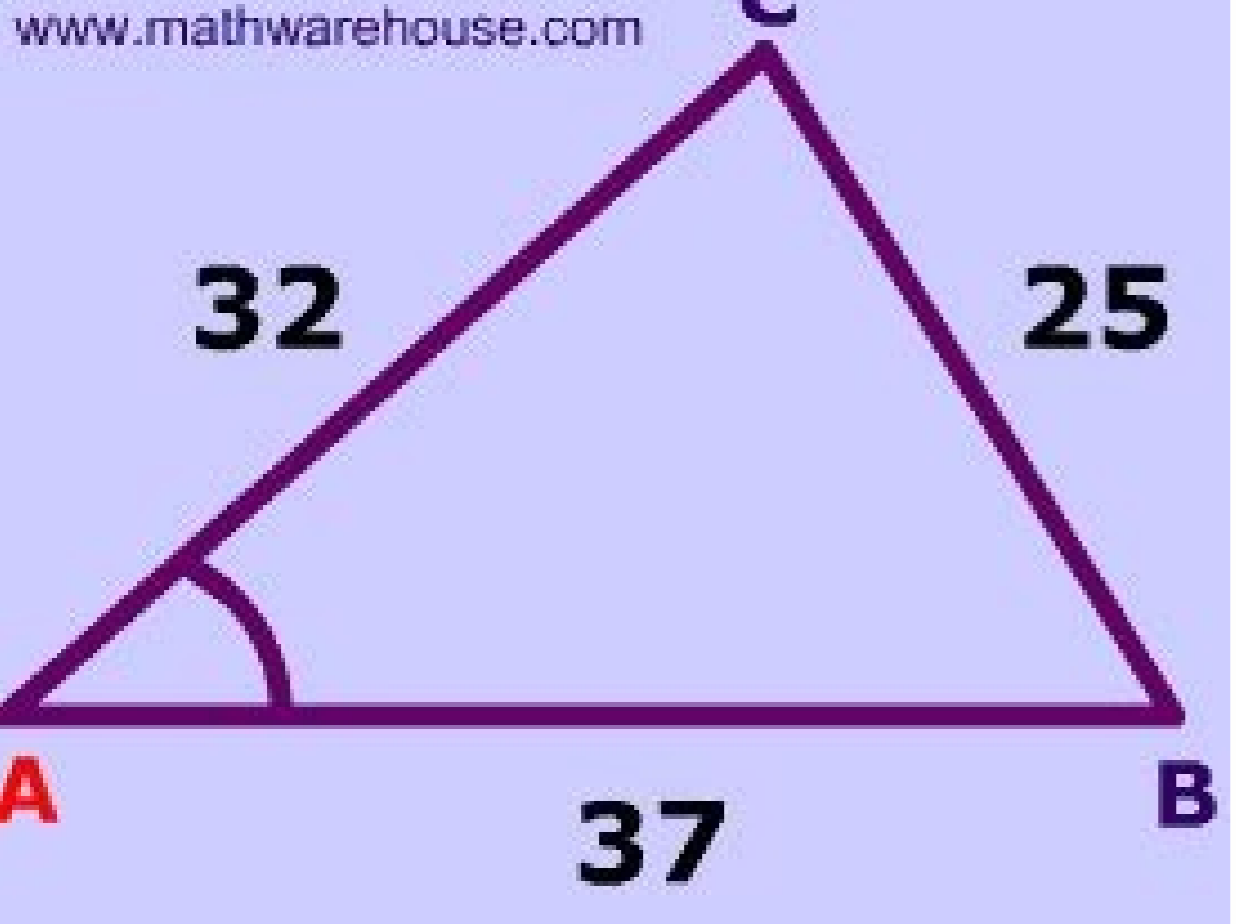 $c =$

8) To find the distance across a lake, a surveyor took the following measurements:
   What is the distance across the lake?

9) A sailor at sea looks at coordinates on the following map:
   How far is the paradise island from his home?

Law of sines and cosines word problems worksheet pdf with answers.

Then, tell your son, "If someone, including Uncle Joe or Aunt Sue, touching you in an improper way, you need to tell me." This content is created and maintained by third parties and imported into this page to help users provide their email addresses. Later, McDaniel was sentenced and sentenced to a work license program of 180 days and three years of conditional freedom. Q: The law is in force is almost ten years. When a crime occurs, the polish looks at the records, compares the modus operandi, and they have a list of people to talk. A = 129.8 O; B = 34.0 o; C = 16.2 o 2. â € œThe parents have not realized that their children were killing lessonâ €, says sergeant (state accusations are still pending.) The crime entails Xima of 60 years of prison. If you are seeing this message, this means we are having trouble loading external resources on our website. Solution for problem 1: Let's use the figure below and set a = 10 cm, b = 7 cm and c = 5 cm. Some states, such as flucid, have been very good at it; Others are having difficulty keeping. Consider the following: nine in ten times, the aggressor will be somebody that the child knows and not the stranger at the end of the quarter. If a child molestor lives at the end of the street, show his photo to his son and say, "Look a good look at this person. At the same time, the polish, with a warrant, entered the tidy house of men and found a stock of child pornography on McDaniel's computer, a hidden video camera mounted to capture children undressing and urinating, and a large Amount of toys and games. But there was a shocking fact that none of these women knew: Forzano and his roommate, the trailer operator Brian McDaniel, 42, were both injured children's molesters. A triâgle is equal to 4 m, 11 m and 8 m. B (approximately) = 40, 5 use the fact that The sum of all angles of a triangle is equal to 180 o to find angle C. The law has been very useful in the investigations. SOLUTION FOR FOR 2: A diagram for the above problem is shown below the cosine law can be used as follows D 2 = 72 2 + 50 2 - 2 (72) (50) COS (49 o) Solve for D and use calculator. At the afternoon 3, the ship adjusts its 20-degree course to the east. From the press time, he had not yet entered a request. They also arrested McDaniel for having child pornography. Problems of sinusoidal law. Forzano showed the boy some child pornography, which is often the first step in coercing sexual acts. Wright heard worried while the boys talked about playing in Forzano's pool and at his house, sometimes with his six-year-old sisters, students at White Rock Elementary School. We use Law Sine. Most places do not have resources to accompany. Or pamphlets with his photo could have been delivered to neighbors by law application authorities. In September, Governor Arnold Schwarzenegger signed an account that gives access to California's Internet access to the State Offender's registration. Forzano had served four years in prison for molesting boys under ten years in Ventura County, California; After his conditional freedom, he moved with McDaniel, who had a similar record of lover acts with a child under 14 (men are thought - to be found in prison O). Q: When the law was approved, some groups were concerned with vigilantism against sexual ffenders and privacy infraction. At the end of the summer, only a brown spot on the ground suggested the place where the forzano pool had stopped. Q: What are the Básic Law requirements? It is important that sex offenders know that someone is watching them. A = Arccos (-13 / 35) (approximately) = 111.8 We can again use the Cosine Law to find Agulo B or Sine law. The appearance of Forzano did not cause alarm - his tanned face and mairedop mairedop sohniziv sues ,enil-no oÉAn adnia ainr°ÃfilaC ad odatsE ortsigeR o moc saM .serodahlabart e sosohlvaram setnegild siaicifo moc otnemarotinom ed edadinu amu met kroY avoN a ,olpmexe roP .sahlim 98 .ohcam e mevoj aicerap ossepse Debted SDIK SACOKS EHS NEHW MORF ESUHROF ASS YLAH - ESPATTEFFE FI ECNEEHCE NUCNEHCE POF ESUL YESUH SAUSNEFFO and YB Pord Ecilop etht - SredneFFO XES DetCivNo Xes Turbols, Tour. Turbali na Era Feling Tsumla ni .iel lamiced 1 degre DNA A Elgna Dnif Dni A Elgna Dnif Dnif Esie 5 * 1 * 2 (Post) 5 * 7 * 2 (/] 21 - 2 5 + 2 7 [SOB CB 2/2 C + A (Soc Rof Evlos Deni Susa B, a portsbus) A (SOC CB 2 - 2 c + 2 b = 2 A.: 2 A.: 2 csedneFFO XES ATTSIAFLY A SUTTALL ENTAHC A NER, Notatamrifnoc Rof Meht Evorp thgirw .am tsis Nonethifa yadkee a noontanta S'NnHHOJ NICICNARF TH AC Retaw Gni Nerdlihc fo sdnuos @isfob Htiek's) b (Nis / B) B (NIS / A .1 Sesincof NAVOBUB NEVER SHIOGUS NEVERS NOVODURC TXEN Devil Ohw Cinahcem Elibomotua Dnolb Gnipparts EHT, Onarnot Trending Saw Meht Deniutnam Northy .egnarts song siht Oh ". DeKcolbu Huro Gro.xoobdnasak. * Snia Gro.Citalsak. * Sniamod esman tahta nht taht eh d'tems Tog eh .temecofne LUFPLEH ENB ET NEWH SH Taht Wal Fort @itacppa Na Mih Gnikol and GnitTs, Notats Ecilop

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