Integrated Alg/Geo Honors

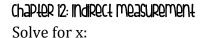
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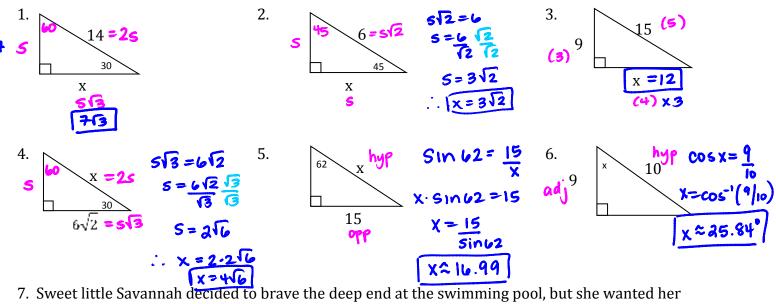


3x = 8.25

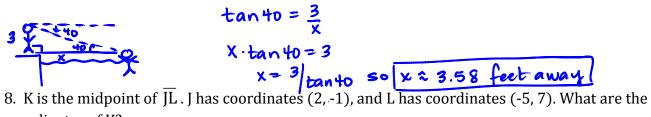
5.5

X





7. Sweet little Savannah decided to brave the deep end at the swimming pool, but she wanted her mommy to catch her! Savannah is 3 feet tall and was looking down at her mom at an angle of depression of 40°. How far away is she from her mom?



coordinates of K?  

$$K = \left(\frac{2+-5}{2}, -\frac{1+7}{2}\right)$$

$$K = \left(\frac{-3/2}{2}, 3\right)$$

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9. K is the midpoint of JL . J has coordinates (2, -1), and K has coordinates (-5, 7). What are the coordinates of L?

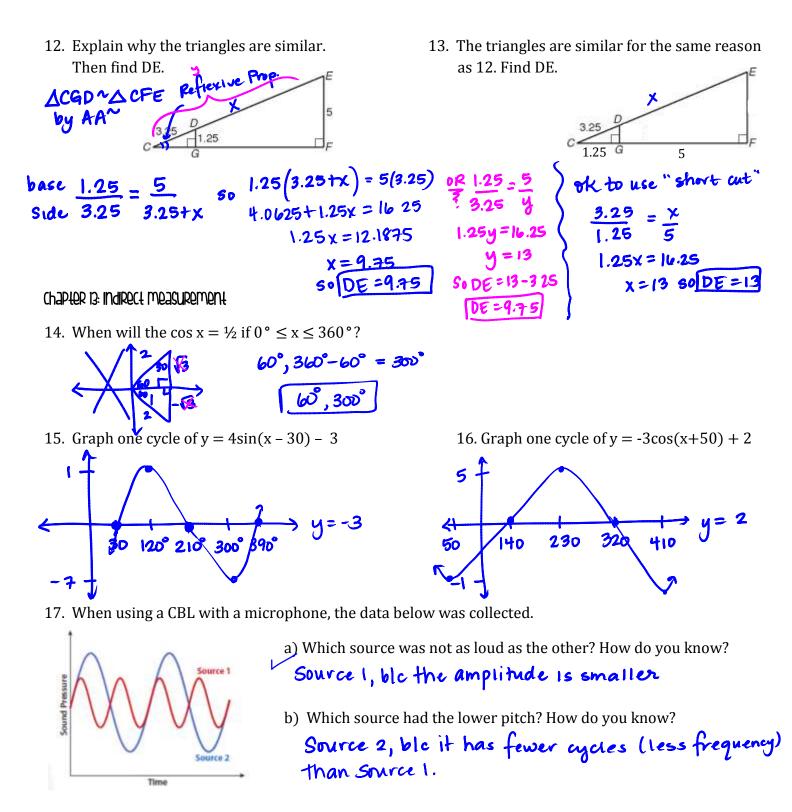
10. Find the distance between J and L if J has coordinates (2)-1) and K has coordinates (-5) 7).  

$$D = \sqrt{(2+(-5))^2 + (-1+7)^2}$$

$$\sqrt{113}$$

11. At a certain time of day, sweet little Savannah who is 3 feet tall casts an 18 inch shadow. What is the sength of her mom's shadow, if her mom is 5 feet 6 inches tall?

height



18. A group wanted to use a bottle to produce a tone with a frequency of 300 Hz. They collected data using a CBL and microphone, and used the TRACE feature on a calculator to find the two sets of coordinates shown below. Should they add or remove water to get closer to the desired frequency?

