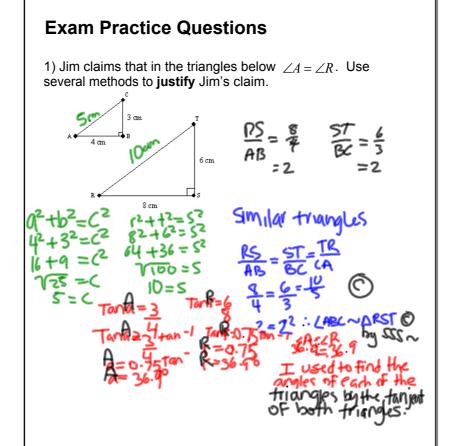
Date _____

Exam Practice

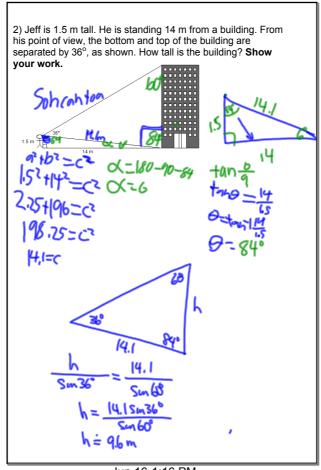
Assigned work:

- questions on hand out

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Jun 16-1:16 PM

3) Two continuous linear relations are defined by

Relation 1: y = 3x - 6

Relation 2:

x	y
2	5
б	15
8	20
14	35

Determine the point of intersection of the lines defined by these relations. **Justify** your solution.

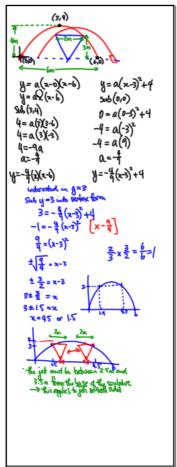
4) Kristen purchased a bag of jelly beans and gummy worms. Jelly beans cost 50 cents/kg and gummy worms cost 80 cents/kg.

Kristen purchased 4kg of candy for a total of \$3.00.

State the system of equations that could be used to determine the quantity of each type of candy she purchased. (Remember to define your variables.)

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- 5) Paula and Francine have each designed and tested a mini-rocket during their summer science camp at the Museum of Science and Technology. Paula's rocket lands 20 metres from the launch point and achieves a maximum height of 60 metres. Francine's rocket, launched from the same point, lands 40 metres away and also achieves a maximum height of 60 metres.
- a) Why might the flight paths be different? **Explain** your thinking. (Assume that they follow parabolic trajectories.)
- b) The rockets are launched towards a 20 m tall observation building. If both rockets clear the observation building, **determine** what you can about the width of the building? **Justify** your answer.



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