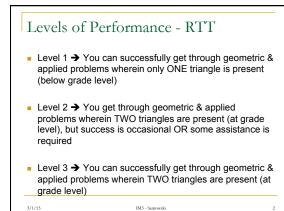
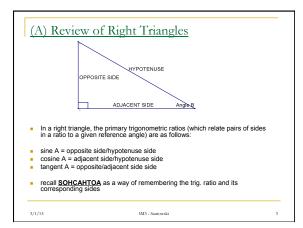


Integrated Math 3 - Santowski

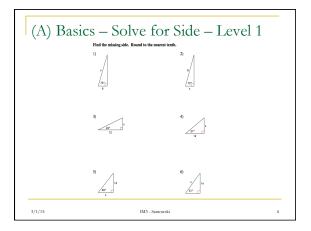
IM3 - Santowski

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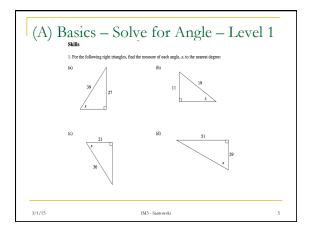




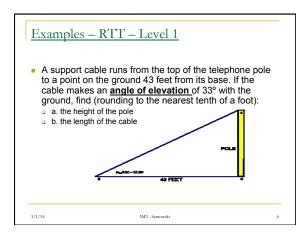




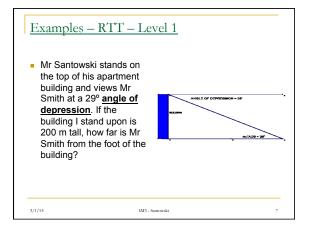




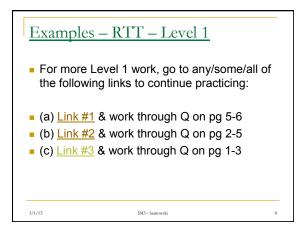












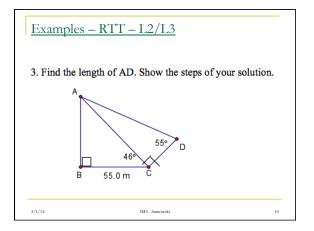


Your solution MUST have:

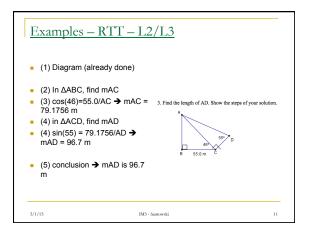
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- (1) properly labeled diagram
- (2) state what triangle you are working in and what you are hoping to determine in that triangle
- (3) your actual working should in the very least show (i) correct substitution into eqn showing what trig ratio(s) you are working in and (ii) the answer for that triangle
- (4) repeat steps 2 & 3 for your second triangle
- (5) your final answer, coming from your working in the two triangles IM3 - Santowski

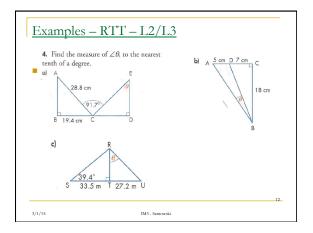
3



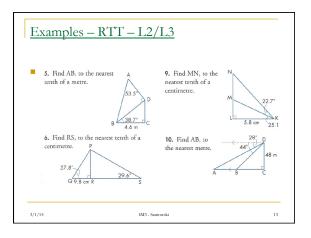




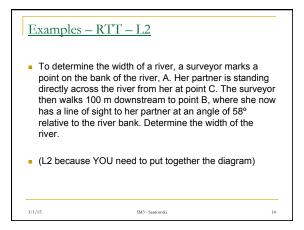


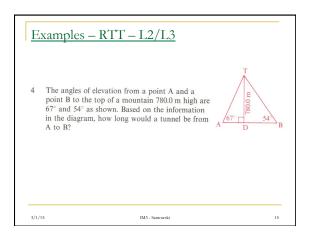












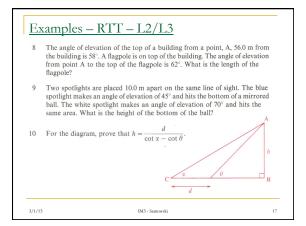
Examples - RTT - L2/L3

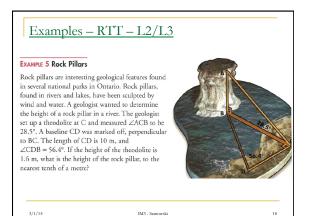
3/1/15

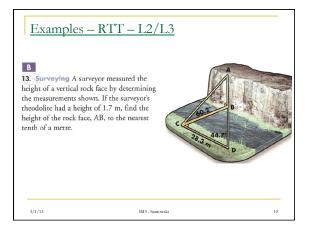
- 5 A forest ranger in a tower 128.0 m high sights two fires in the same line of sight with angles of depression 42° and 61° . How far apart are the fires?
- 6 From a window 26.0 m above the ground, the angle of elevation of the top of a building is 39°, while the angle of depression to the bottom of the building is 29°. How high is the building?
- 7 A helicopter, directly above a building, sights a position, A, on the ground at an angle of depression of 38° . The helicopter then rises vertically above the building, a distance of *d*, in metres, and sights position A, now at an angle of depression of 52° . If point A is 352.0 m from the building, how far has the helicopter risen?

IM3 - Santowski

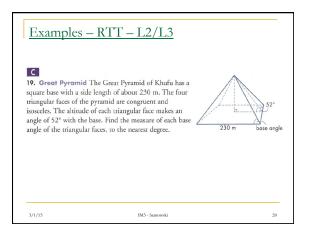
16

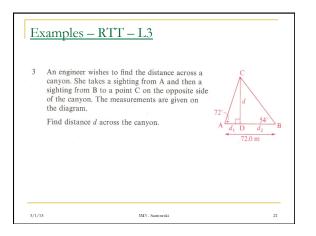


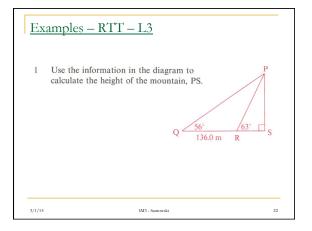




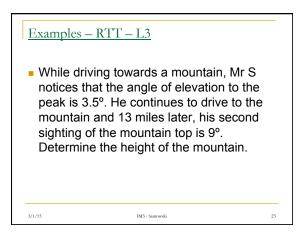












Examples – RTT – L3

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 For further examples of problems at Level 3, <u>follow this link</u> and work through the Q on pages 2-6

IM3 - Santowski

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