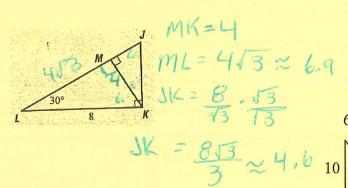
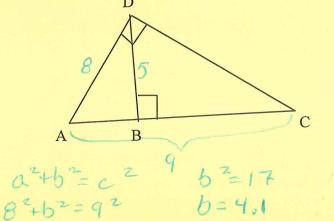
General Geometry CH 7 Review (Give answers as simplified radical *and* to nearest tenth)

1. Find MK, JK, and ML.



Use the following picture for questions 2&3:



2. If AD= 8 and AC= 9, find DC.

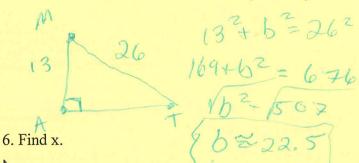
JTF = 4.1

64+5= 81

- 3. Given DB = 5 and AC = 13. Find the area of  $\triangle$ ADC.
- 4. In right triangle GEO, E is the right angle. Side GE = 6 and side EO = 19. Find GO. *Draw it*.

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5. In right triangle MAT, A is the right angle. Side MA = 13 and side MT = 26. Find AT. (Draw it!)

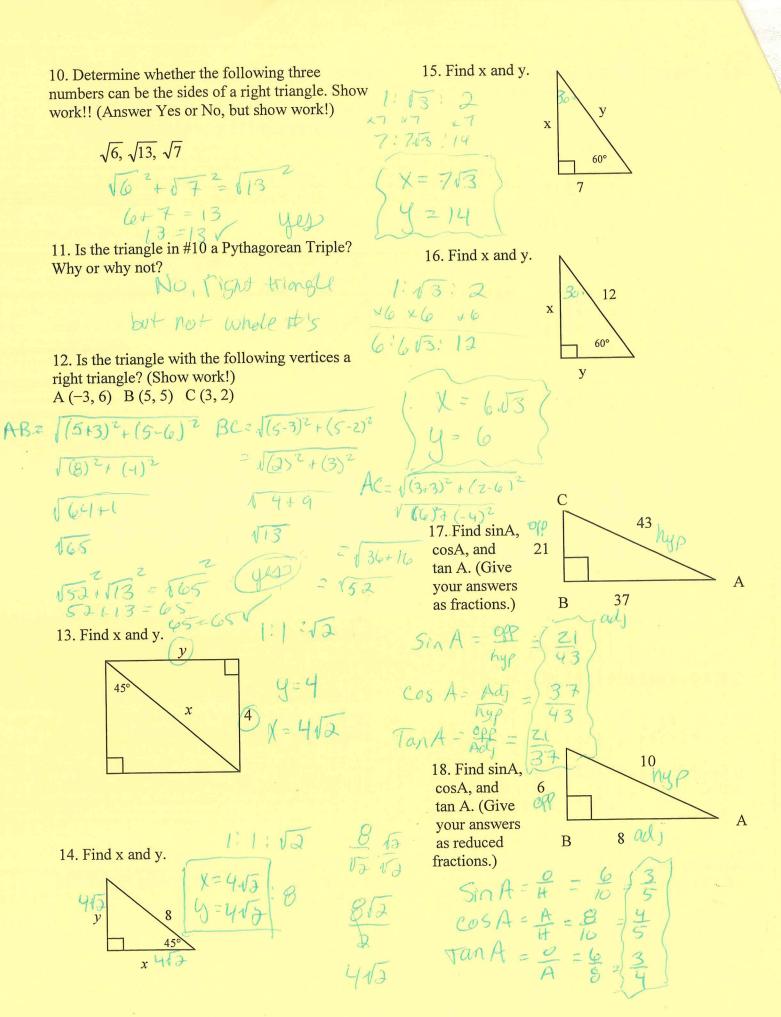


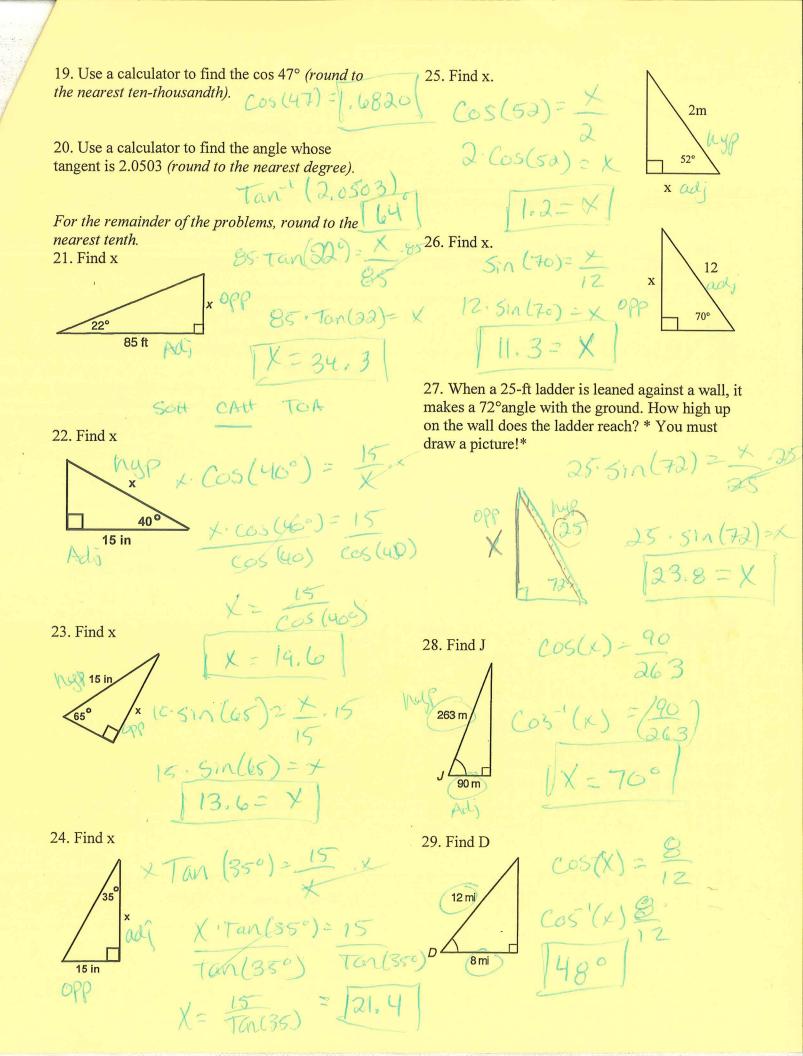
8. Determine whether the following three numbers can be the sides of a right triangle. Show work!! (Answer Yes or No, but show work!)

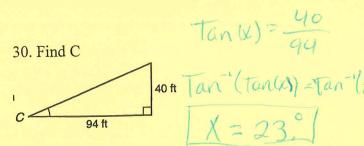
6, 10, 8  $6^{2} + 6^{2} - 16^{2}$  36 + 64 = 100 100 = 100 4

9. Is the triangle in #8 a Pythagorean Triple? Why or why not?

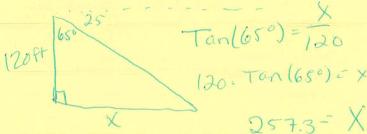
Pythergoren Triple because it is a right triongle we all whole #3



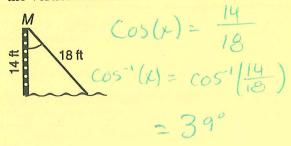




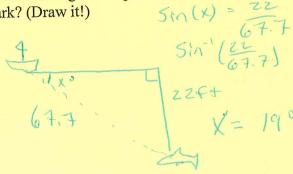
34. The angle of depression from the top of a lighthouse to a ship is 25 degrees. If the lighthouse is 120ft tall, find the distance from the ship to the base of the lighthouse (draw a picture!).



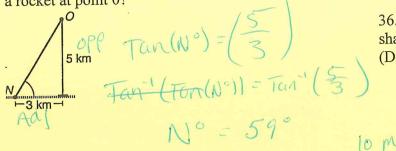
31. The top of an 18-ft waterslide is 14 ft above the ground. What angle does the slide make with the vertical ladder?



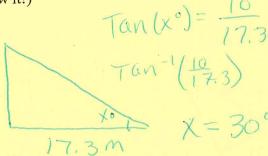
35. A great white shark swims 22 feet below sea level. If the shark is 67.7 feet from the sailboat, what is the angle of depression of the boat to the shark? (Draw it!)



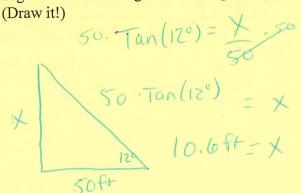
32. Tracking a Rocket Launch. At what angle must a camera at point N be aimed to photograph a rocket at point 0?



36. A tree 10 meters high casts a 17.3 meter shadow. Find the angle of elevation of the sun. (Draw it!)



33. A boy standing 50 feet from a telephone pole is looking up at a bird on top of the pole. The angle of elevation from the boy to the bird is 12 degrees. Find the height of the telephone pole.



37. Find the area. Include units. 22+b2=c2

 $4^{2} + b^{2} = 5^{2}$   $16 + b^{2} = 25$   $6^{2} = 9$ 

38. Find the area. Include units.

4m .

