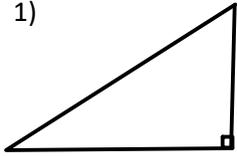


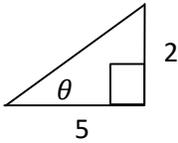
M10 - 3.0 - Trig Exam Review Questions

1)



Measure the triangle with a ruler and a protractor and confirm with Pythagoras theorem & trigonometry.

2) Find $\sin\theta$

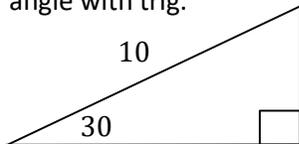


3) Solve on calculator to 3 decimals.

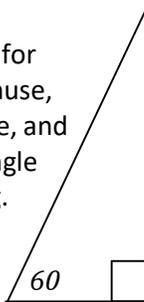
$$\tan 25 =$$

$$10 \sin 30^\circ =$$

4) Solve for Opposite, adjacent and other angle with trig.

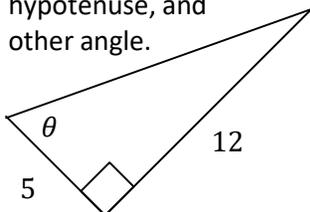


5) Solve for Hypotenuse, Opposite, and other angle with trig.



12

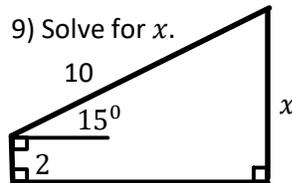
6) Solve θ , the hypotenuse, and other angle.



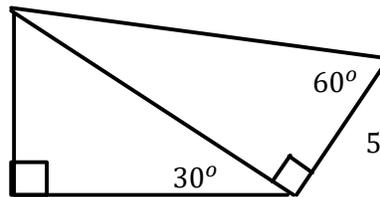
7) A totem pole 20 feet high casts a shadow of 7 feet. Find the angle of elevation of the sun.

8) The angle of depression from a building is 30 degrees to a person standing 50 yards from the base of the building. Find the height of the building.

9) Solve for x .



10) Solve for x



11) a) Find $\sin\theta$ and θ if $\cos\theta = \frac{3}{5}$

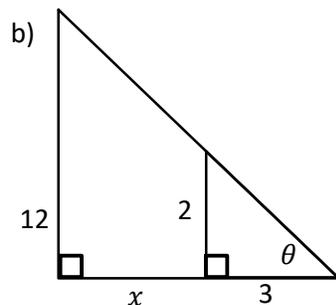
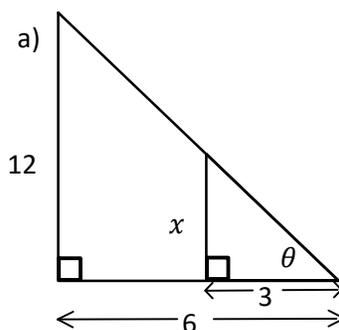
b) Find $\cos\theta$ and θ if $\tan\theta = 1.25$

12) Find x .

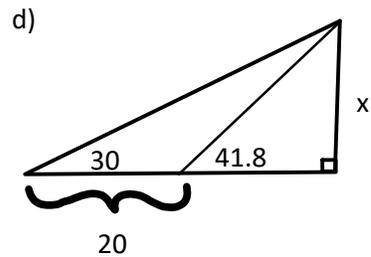
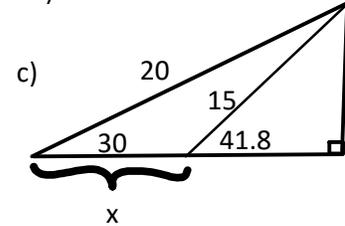
a) $\sin 30^\circ = \cos x^\circ$

b) $\cos 0^\circ = \sin x^\circ$

13) Solve for x , $\tan\theta$ and θ .

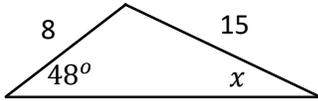


13) Solve for x .

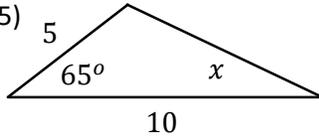


M10 - 3.0 - Trig Exam Review Questions

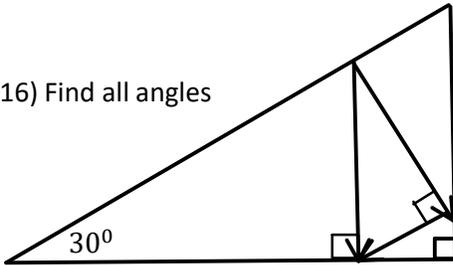
14) Solve for x



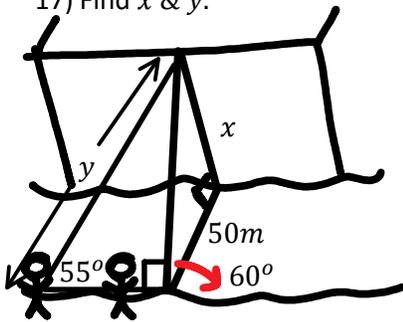
15)



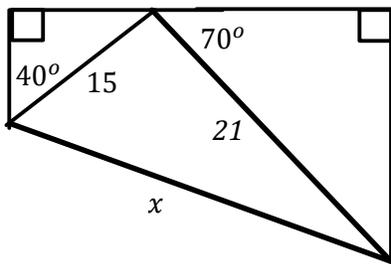
16) Find all angles



17) Find x & y .



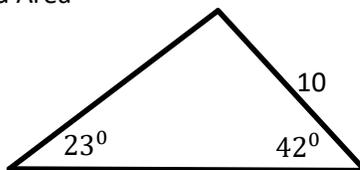
18) Solve for x .



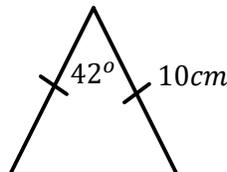
Think outside the Box

19) Find Area

a)



b)



20) If a television set has a ratio of 4 : 3, and the diagonal length is 40 inches find the area of the television.

21) A flat hill has a ratio of its horizontal length of 10 kilometers to a vertical length of 800 meters. How long would it take to drive up this hill at 50 kilometers per hour.

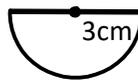
22) If the terminal arm of the angle θ lies between the line $3x + 2y = 0$ and the x -axis, $x \geq 0$, determine the exact value of $\sin\theta + \tan\theta$.

23)

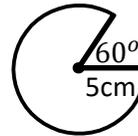
- a) Draw 40°NoE [$E40^\circ \text{N}$]
- b) Draw 30°WoS [$S30^\circ \text{W}$]

24) Find the Perimeter and Area

a)



b)



25) A wheel with radius 5 cm goes 62.84 cm. How many degrees did it turn?