Instructions: Please complete the following questions by <u>researching online and watching video links</u>.

Please reach out to your teacher for help or guidance through email or Teams if needed. Live video tutorials are on Teams Wednesdays at 11am and will be recorded and posted on Teams to watch at your convenience.

# **Trigonometry**

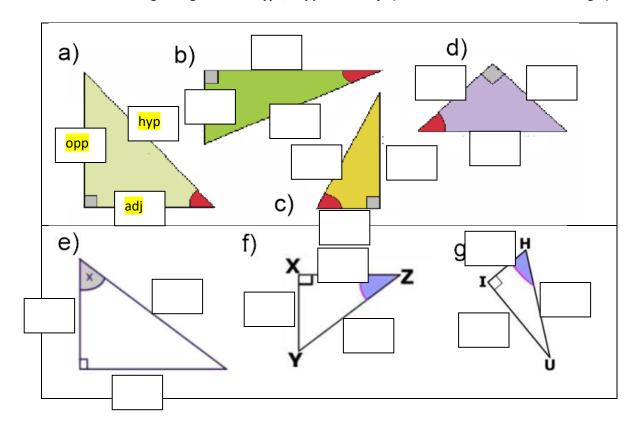
Watch the following videos and fill in the notes / answer the questions.

#### 1. Labelling sides

https://www.youtube.com/watch?v=1ALLrv2dQxc

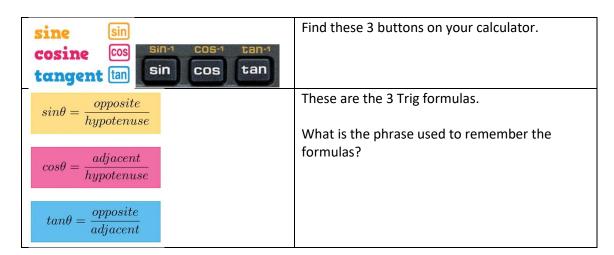
nttps://www.youtube.com/watch:v=iALLivzuQxc	
В	What type of triangle is this? How do you know?
θ	This is the Greek letter called:  It is used as a variable to represent:
'hypotenuse'	It is the side It is always opposite the
'hypotenuse'  'opposite'	Opposite the angle we're or Opposite the angle we
'adjacent'	The one "" The side next to the and the angle involved in the question
adj hyp opp hyp adj	Which side name stayed the same in both triangles?  Why did the "opp" and "adj" sides swap?
label the diagram with "hyp", "opp" and "adj"	

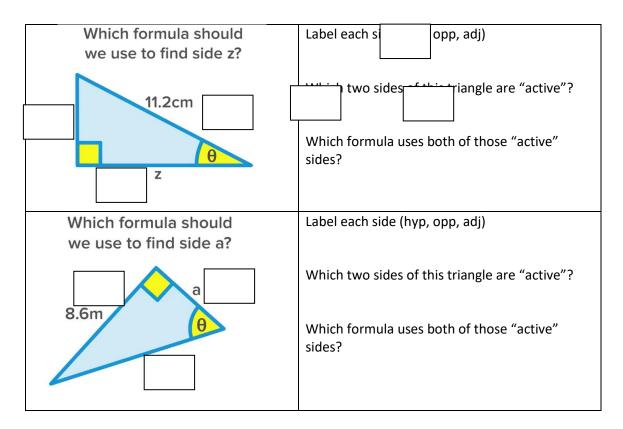
## Label the following triangles with "hyp", "opp" and "adj" (in reference to the indicated angle)



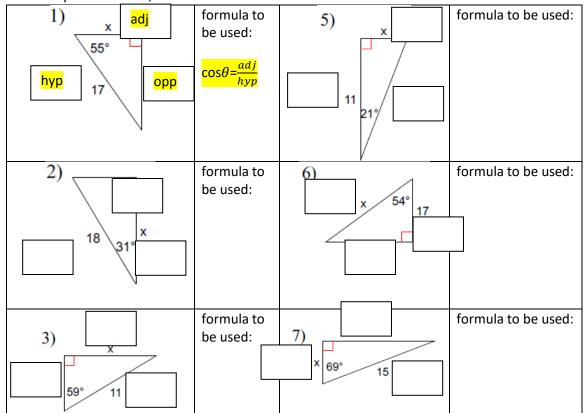
### 2. Intro Trig ratios/identities/formulas

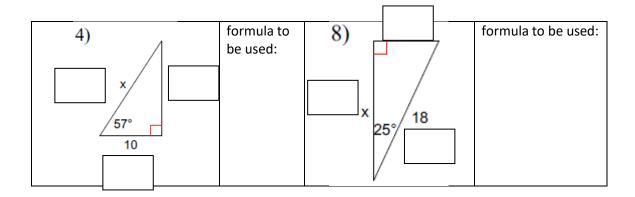
https://www.youtube.com/watch?v=tKAMM3kacbs





For the following questions, label each side (hyp, opp, adj) and decide which of the three trig formulas you would use, based on the "active" sides.

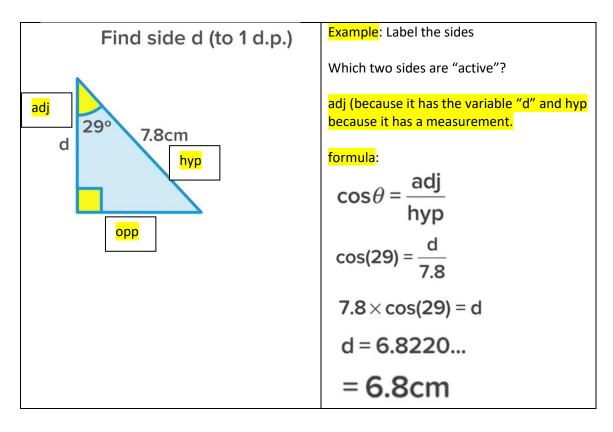


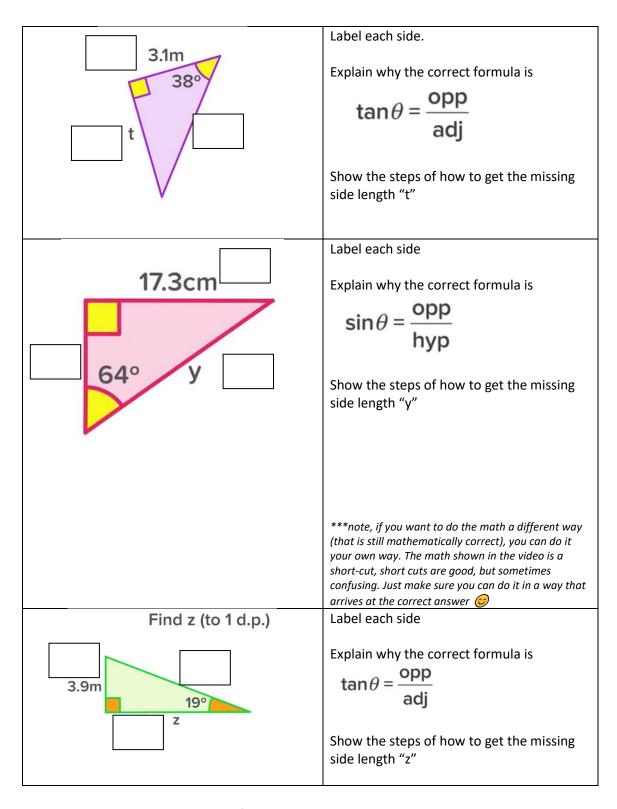


#### 3. Finding missing sides

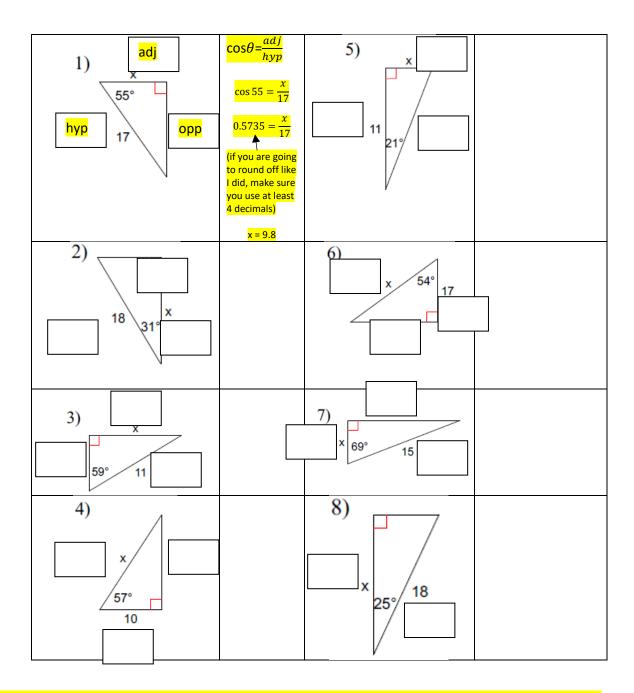
\*\*\* BEFORE YOU START THIS SECTION, AND USING THE SIN COS TAN BUTTONS ON YOUR CALCULATOR, YOU HAVE TO MAKE SURE YOUR CALCULATOR IS IN DEGREE MODE — look for a little D or DEG on your screen, if it shows R or RAD or G or GRAD, hit your "mode" button until it's in degree mode, IF YOU AREN'T IN THE RIGHT MODE, YOUR ANSWERS WILL BE WRONG.

https://www.youtube.com/watch?v=E7y3ENOSGK4





Find the missing side lengths in the following triangles. For every question, label your sides and write your formula. Round answers to one decimal place.



I'm going to post the answers (without the work) below so you know if you did the questions correctly or not.

