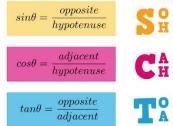
Instructions: Please complete the following questions by <u>researching online and watching video links</u>. Please reach out to your teacher for help or guidance through email or Teams if needed. Live video tutorials are on Teams Wednesdays at 11am and will be recorded and posted on Teams to watch at your convenience.

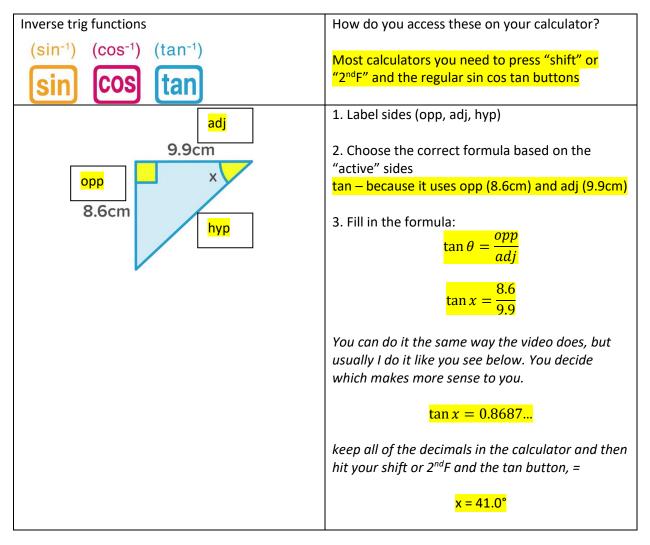
## Trigonometry

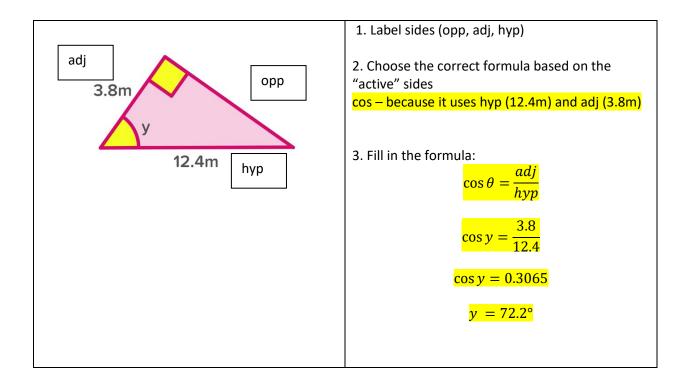
Watch the following videos and fill in the notes / answer the questions.

\*\*\* MAKE SURE YOUR CALCULATOR IS IN DEGREE MODE

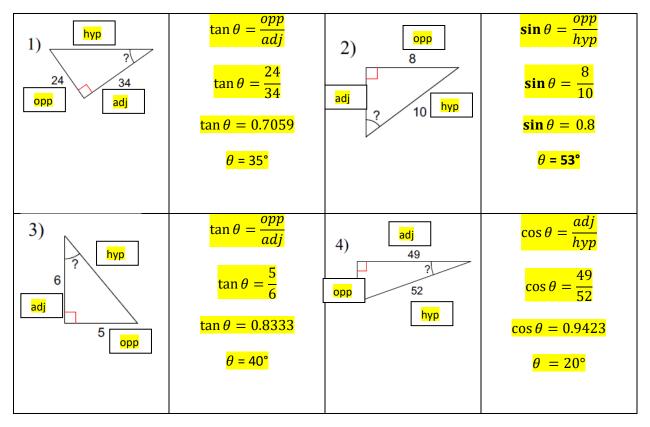


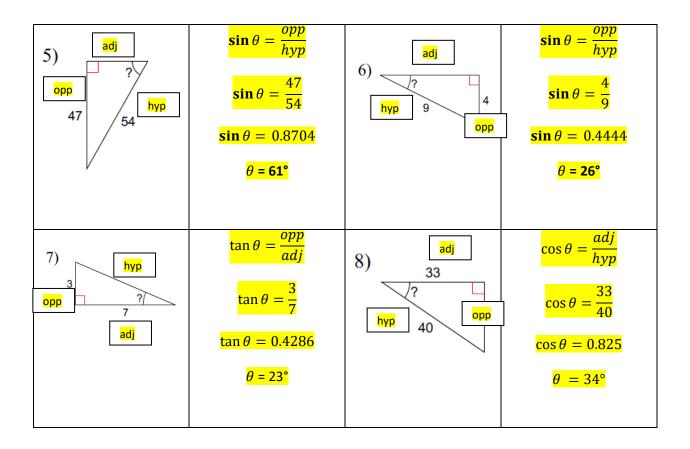
## Finding missing angles: https://www.youtube.com/watch?v=ZDXc41r-jro



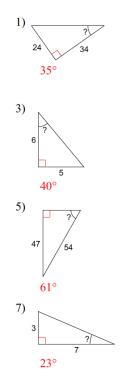


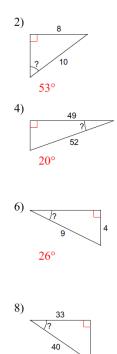
Find the missing angles in the following triangles. For every question, label your sides and write your formula. Round answers to the nearest degree.





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





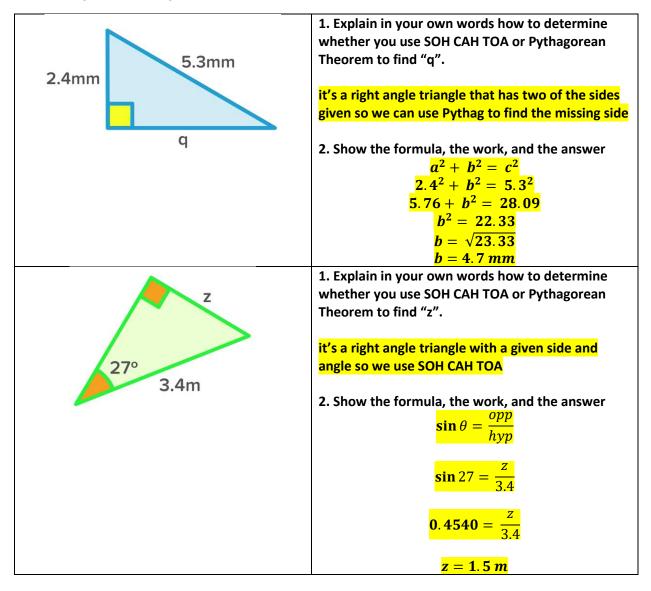
34°

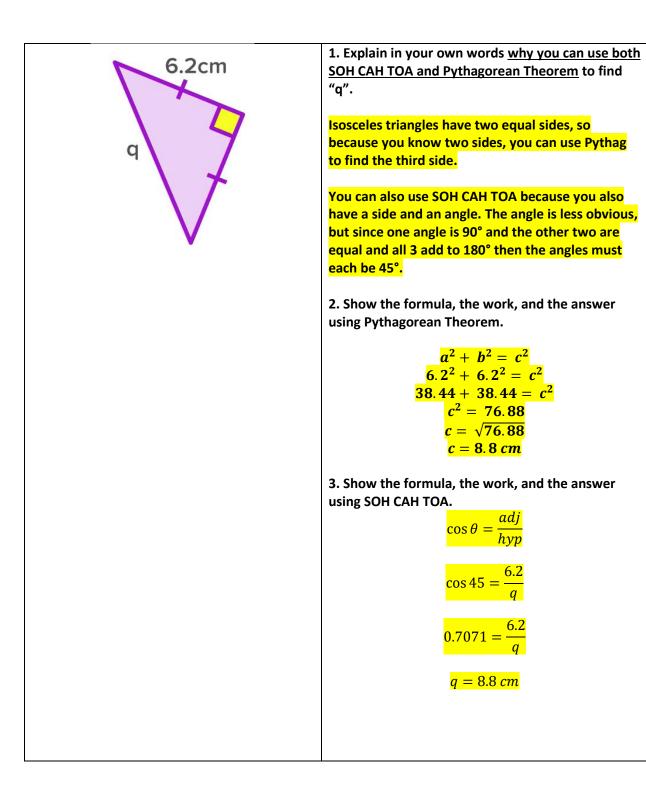
## Combined Practice: https://www.youtube.com/watch?v=CJ6PiXct-ls

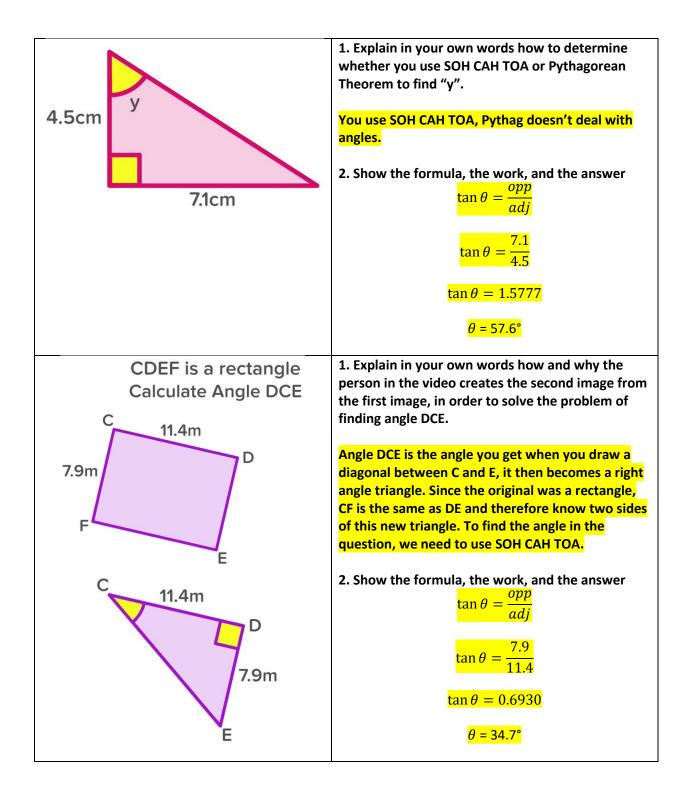
Fill in the comparison table from the video

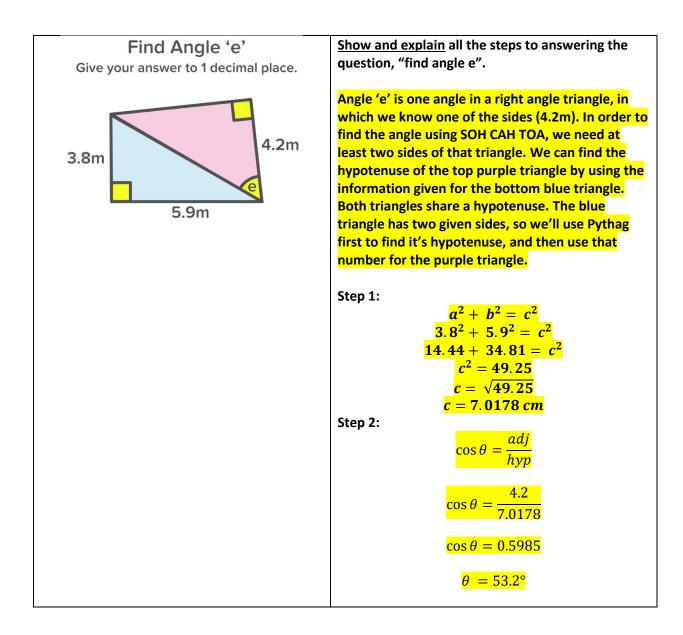
'SOHCAHTOA'	PYTHAG
used in right angle triangles	used in right angle triangles
can find a missing side using another side and an	can find a missing side using both the other
angle	<mark>sides</mark>
can find a missing angle using two sides	can not be used to find an angle

Use the video to help you find the answers. The video doesn't show the formulas or most of the work, but I'd like you to in the space below.



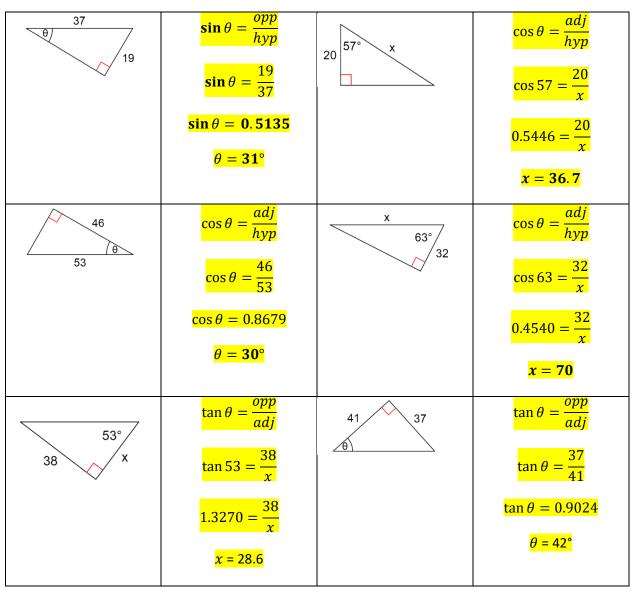




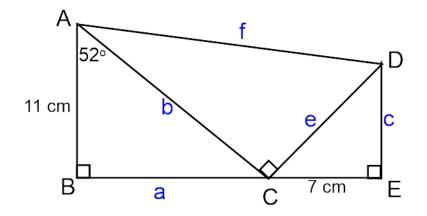


## **Practice questions:**

1. Find the side lengths or missing angles in the following triangles. For every question, write your formula and show your work. Round answers to one decimal place for side lengths and to the nearest degree for angles.



2. Use your knowledge of angles, SOH CAH TOA and Pythagorean Theorem to find the missing sides and angles.



a: <mark>14 cm</mark>	∠ACB: <mark>38°</mark>
b: <mark>17.8 cm</mark>	∠DCE: <mark>52°</mark>
c: <mark>9 cm</mark>	∠CAD: <mark>33°</mark>
e: <mark>11.4 cm</mark>	∠ADC: <mark>57°</mark>
f: <mark>21.1 cm</mark>	∠CDE: <mark>38°</mark>