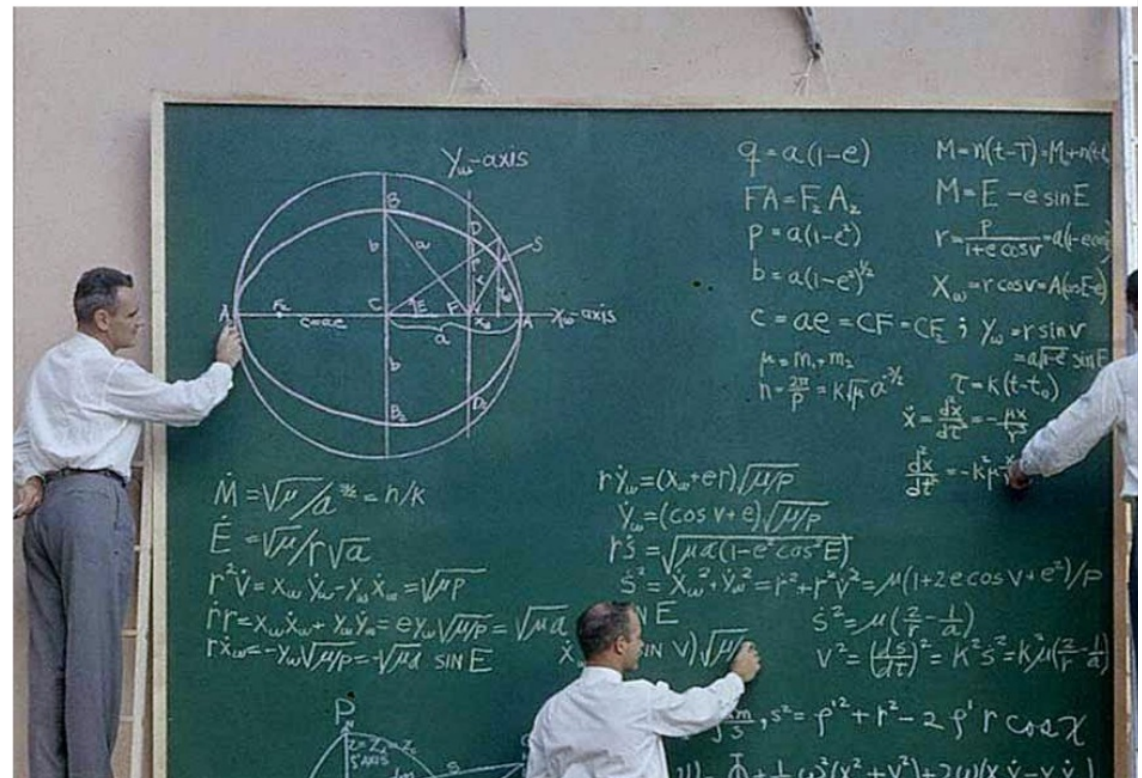


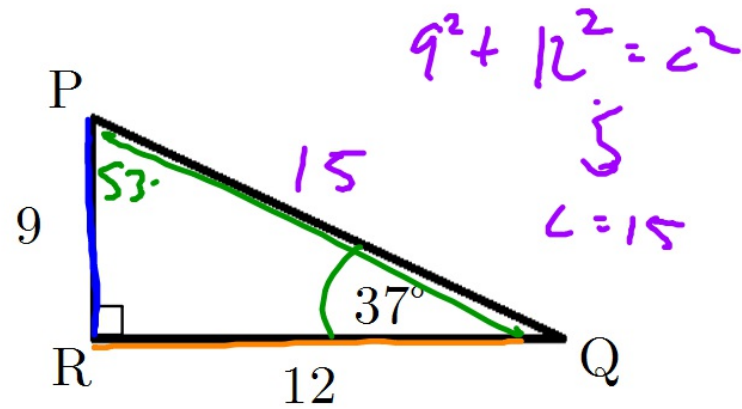
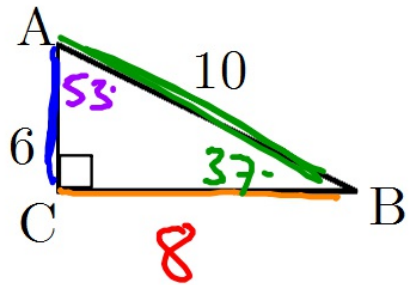
Trigonometry...what is it??

Talk with your table partners about 2-3 things you took away from the video



(NOTES)

Find all the missing values you can.

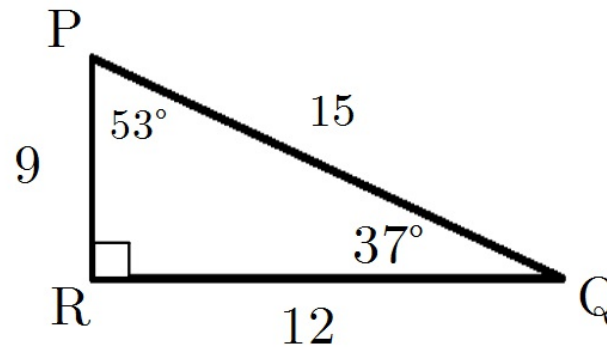
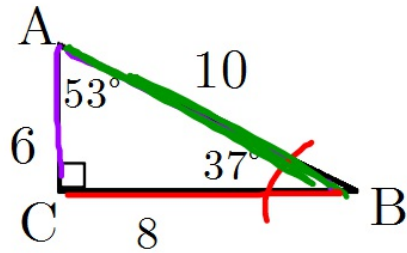


$$6^2 + b^2 = 10^2$$

}

$$b = 8$$

Side length naming method: side length is labeled with lowercase letter



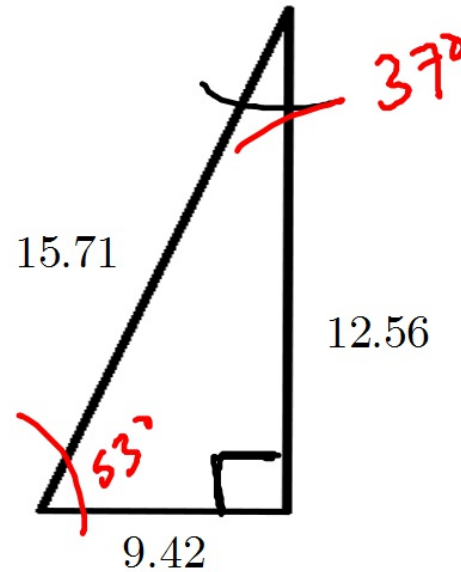
From the reference angle that is 37° , find the following ratios in decimal form

	$\triangle ABC$	$\triangle PQR$
$\frac{\text{opposite}}{\text{hypotenuse}}$	$\frac{6}{10} = 0.6$	$\frac{9}{15} = 0.6$
$\frac{\text{adjacent}}{\text{hypotenuse}}$	$\frac{8}{10} = 0.8$	$\frac{12}{15} = 0.8$
$\frac{\text{opposite}}{\text{adjacent}}$	$\frac{6}{8} = 0.75$	$\frac{9}{12} = 0.75$

Now consider this triangle:

Find the same ratios
this time using the smallest angle
as reference

$$\begin{aligned} \frac{\text{opposite}}{\text{hypotenuse}} &= \frac{9.42}{15.71} = 0.6 \\ \frac{\text{adjacent}}{\text{hypotenuse}} &= \frac{12.56}{15.71} = 0.8 \\ \frac{\text{opposite}}{\text{adjacent}} &= \frac{9.42}{12.56} = 0.75 \end{aligned}$$



$$\text{Sine} = \frac{\text{opposite}}{\text{hypotenuse}}$$

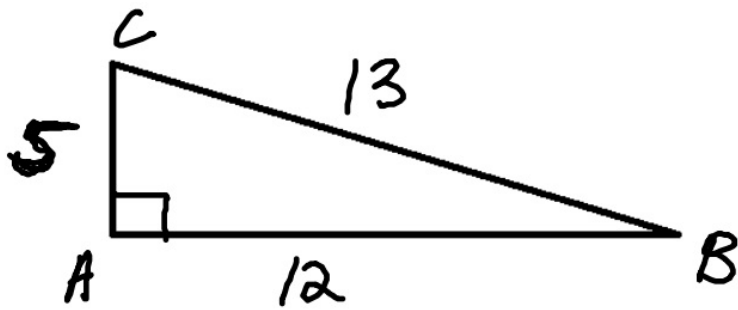
$$\text{Cosine} = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\text{Tangent} : \frac{\text{opposite}}{\text{adjacent}}$$

(NOTES
~~on on handout~~)

SOH/CAH/TOA

Examples of basic trigonometry (notes)



- What is $\sin B$? $\left(\frac{5}{13}\right)$
- What is $\tan C$? $\left(\frac{12}{5}\right)$

• What are 2 ways to express $12/13$?

$\cos B$

$\sin C$

Kahoot!



Get out a device please

If not, get a laptop

go to

kahoot.it

Share with your face partner:

What's one thing that surprised you today?

What's one thing you will remember from today?

Homework:

p. 311 #11, 13, 14

