

CALC

FORMS CW 8/28/20

1. What ratio of triangle sides is represented by the tangent function?

opposite over adjacent

2. Convert $3(\pi)/10$ radians to degrees

- 33 degrees
- 180 degrees
- 54 degrees
- 330 degrees

$$\frac{3\pi}{10} = \frac{540}{10} = 54^\circ$$

3. Convert 200 degrees to radians

- $10(\pi)/9$ radians
- 200 radians
- $(\pi)/200$ radians
- $5(\pi)/3$ radians

$$200^\circ \left(\frac{\pi \text{ rad}}{180^\circ} \right) = \frac{10\pi}{9}$$

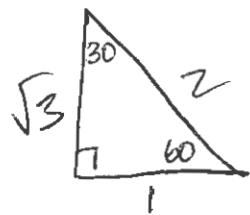
4. In a 30-60-90 special right triangle, if the hypotenuse is 6 units, how long is the short leg?

3

5. Draw a 30-60-90 special right triangle with a hypotenuse of 2. Fill in the lengths of the legs.

Now use your drawing to find the $\tan(60^\circ)$.

- 1/2
- $\sqrt{3}$
- $1/\sqrt{3}$
- $[\sqrt{3}]/2$



$$\begin{aligned} 1^2 + b^2 &= 2^2 \\ b^2 &= 3 \\ b &= \sqrt{3} \end{aligned}$$

$$\tan 60^\circ = \sqrt{3}$$