

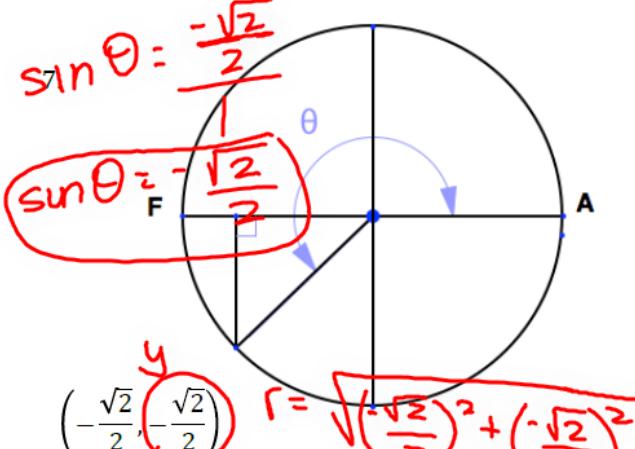
Starter

Get out your 6.3 packet, we will go over any questions you have soon!

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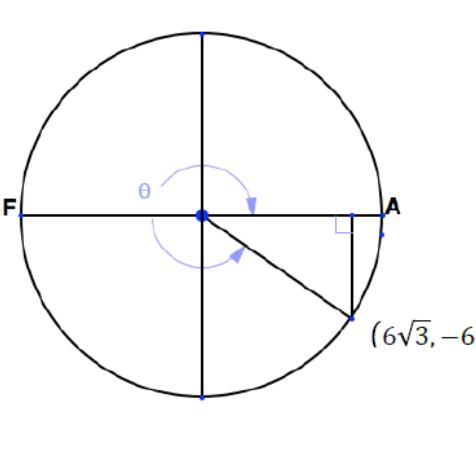
$\sin \theta = -\frac{\sqrt{2}}{2}$

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$F \left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2} \right)$

$r = \sqrt{\left(\frac{-\sqrt{2}}{2}\right)^2 + \left(\frac{-\sqrt{2}}{2}\right)^2}$

$r = \sqrt{\frac{2}{4} + \frac{2}{4}} = \sqrt{1} = 1$

8. 

($6\sqrt{3}, -6$)

9. In each graph above, the angle of rotation is indicated by an arc and θ . Describe the angles of rotation that make the y-values of the points be positive and the angles of rotation that make the y-values be negative.

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14. The shadow of a flagpole is 40.6 meters long when the angle of elevation of the sun is 34.6° . Find the height of the flagpole.

15. The angle of depression from the top of a building to a car parked in the parking lot is 32.5° . How far from the top of the building is the car on the ground, if the building is 252 meters high?

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Mathematics Vision Project | M^VP

$252 \cdot \tan 57.5 = \frac{x}{252} \cdot 252$

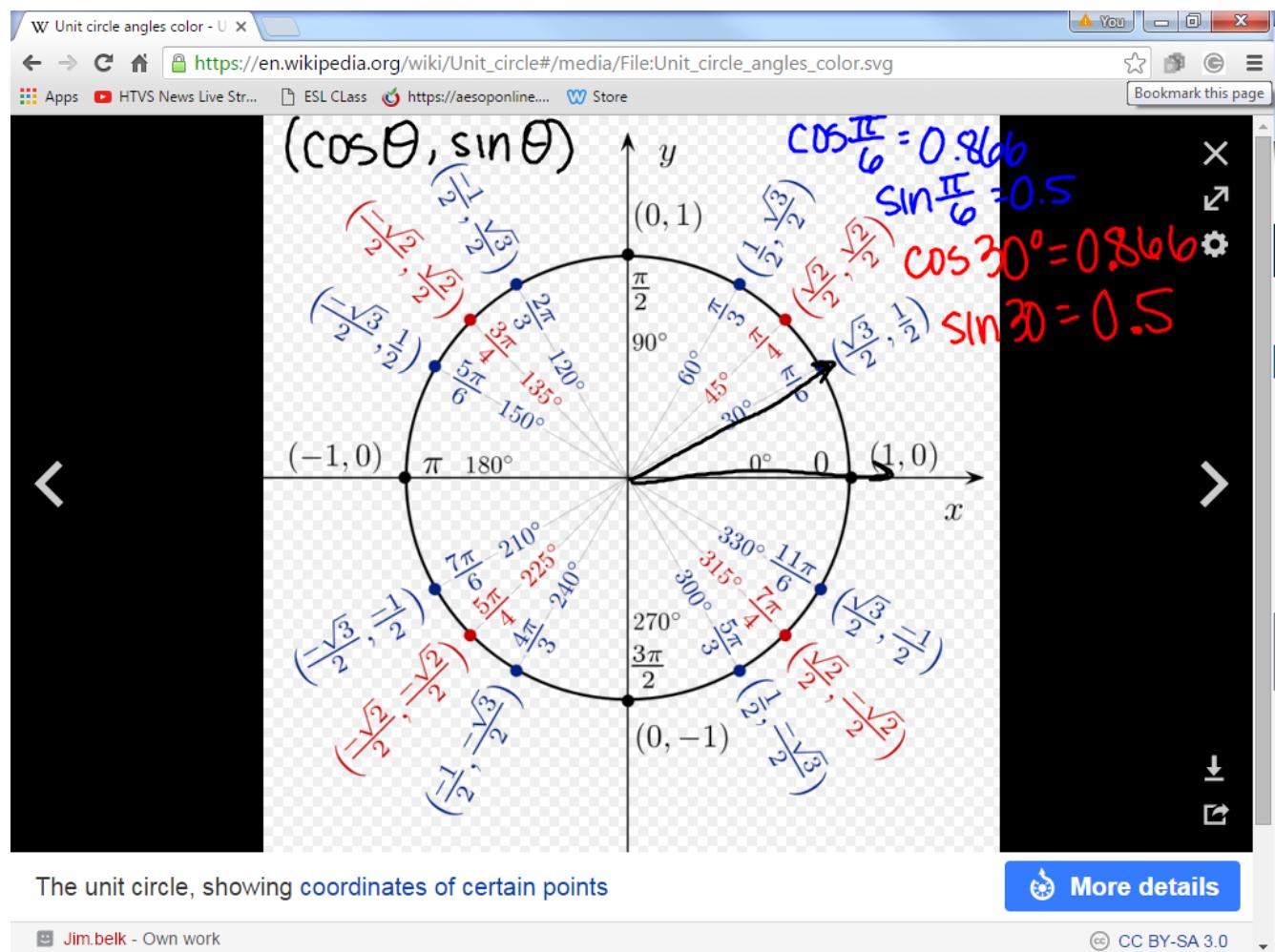
$252 \tan 57.5 = x$

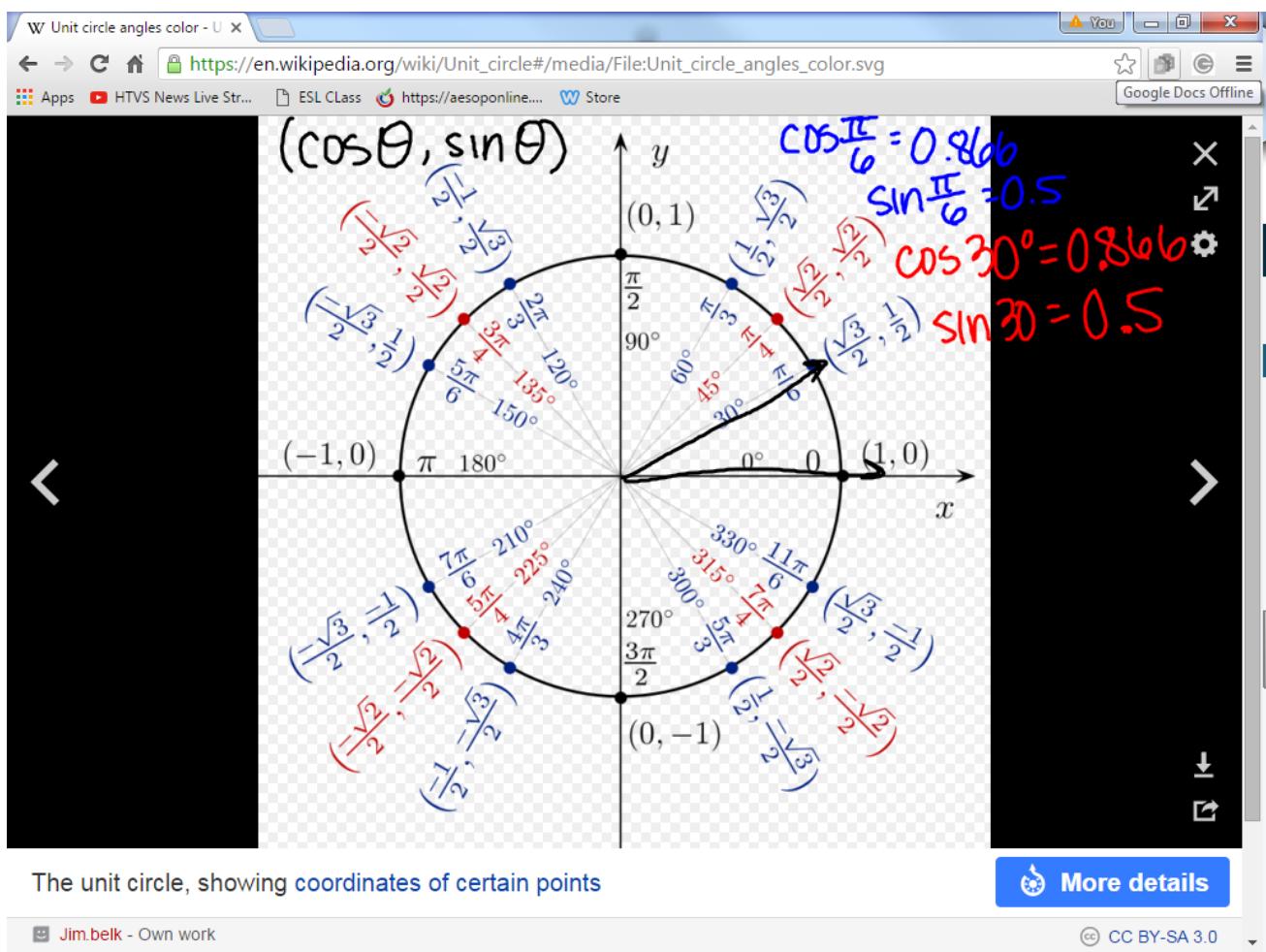
$$395.56 \underset{m}{\approx} = x$$

Schedule

-Go over 6.3

-SAGE Review





$$\frac{82 \text{ m}}{1} \cdot \frac{1 \text{ ft}}{12 \text{ in}}$$

Converting Between Degrees & Radians

Deg → Rad

$$\frac{220^\circ}{1} \cdot \frac{\pi}{180^\circ} = \frac{220\pi}{180} = \frac{11\pi}{9} \text{ or } 3.84 \text{ radians}$$

Rad → Deg

$$\frac{7\pi}{5} \cdot \frac{180^\circ}{\pi} = \frac{7(180)}{5} = 252^\circ$$