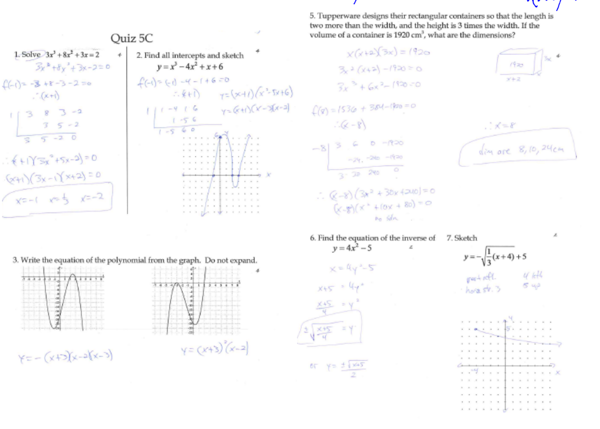
The Unit Circle II (4.2) p187 day 4



p187 day 4

4. If $P(\theta)$ is the point at the intersection of the terminal arm of angle θ and the unit circle, determine the exact coordinates of each of the following.

a) $P(\pi)$ **b)** $P\left(-\frac{\pi}{2}\right)$

c) $P\left(\frac{\pi}{3}\right)$ **d)** $P\left(-\frac{\pi}{6}\right)$

e) $P\left(\frac{3\pi}{4}\right)$ **f)** $P\left(-\frac{7\pi}{4}\right)$

g) $P(4\pi)$ x y **h)** $P\left(\frac{5\pi}{2}\right)$

i) $P\left(\frac{5\pi}{6}\right)$ **j)** $P\left(-\frac{4\pi}{3}\right)$

cd, 5aeg, 10

5. Identify a measure for the central angle θ in the interval $0 \le \theta < 2\pi$ such that $P(\theta)$ is the given point.

a) $(0, -1)$ **b)** $(1, 0)$

c) $\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$ **d)** $\left(-\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$

e) $\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$ **f)** $\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$

g) $\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$ **h)** $\left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$

i) $\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$ **j)** $(-1, 0)$

10. Mya claims that 0 and 1 can be u of a point on the

a) Do you agree

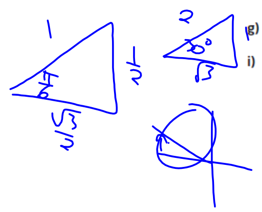
b) Mya showed the y-coordina

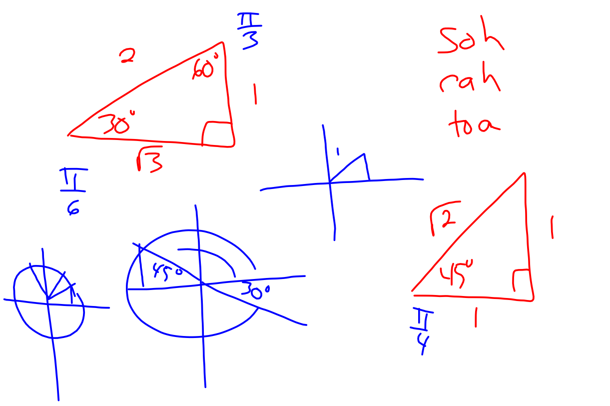
$y^2 = 1 - (0.807)^2$
$\approx 0.348\ 751$

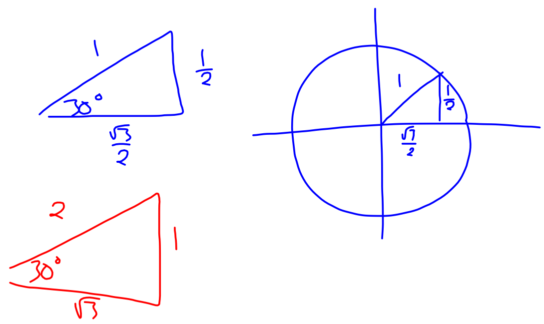
The point on the

How can you she correct? If answer?

c) If $y = 0.2571$, is on the unit quadrant.







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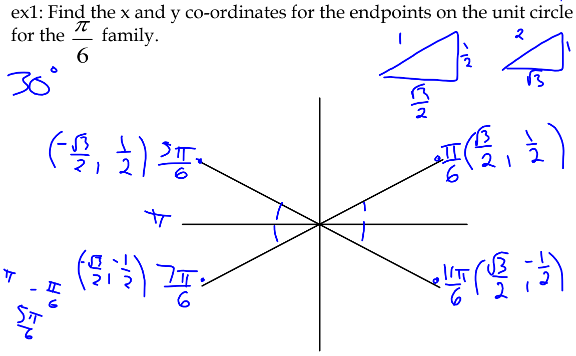
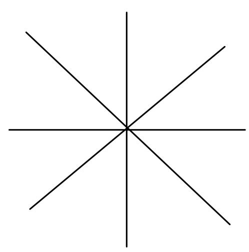
ex1: Find the x and y co-ordinates for the endpoints on the unit circle for the $\frac{\pi}{6}$ family.

30°



The Unit Circle II (4.2) p187 day 4

ex2: Repeat the exercise for the $\frac{\pi}{4}$ family.



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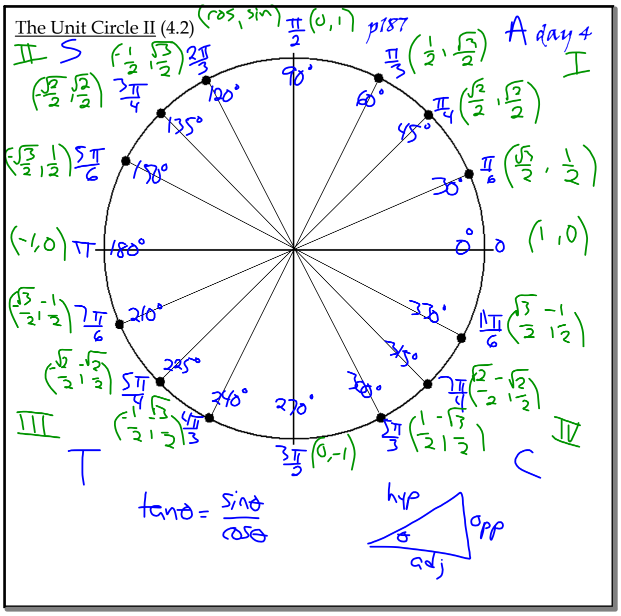
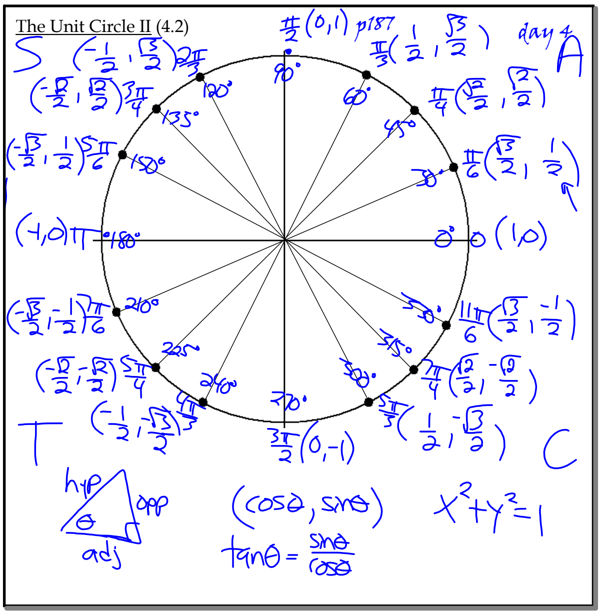


The Unit Circle II (4.2) p187 day 4



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4efghj

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5bdfhj

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HW: p187#6, 13, 15

$\frac{\sqrt{2}}{2} = \frac{1}{\sqrt{2}}$

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The woman who remembers everything.

The man who can't remember anything.

Who is happier? Why?

Attachments

quiz5.pdf