Trig Ratios (4.3) p202 day 5

assignment 2 due now

COMC Thursday 8:50 in **Physics Lab**

Peak-End Rule

colonoscopy
hands in water

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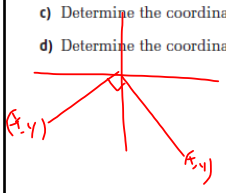
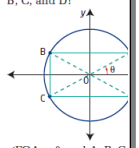
p187 #6, 13, 15

13. If $P(\theta) = \left(-\frac{1}{3}, -\frac{2\sqrt{2}}{3}\right)$, determine the following.
   a) What does $P(\theta)$ represent? Explain using a diagram.
   b) In which quadrant does $\theta$ terminate?
   c) Determine the coordinates of $P\left(\theta + \frac{\pi}{2}\right)$.
   d) Determine the coordinates of $P\left(\theta - \frac{\pi}{2}\right)$.




6. Determine one pos
measure for θ if P(

15. a) In the diagram, A has
ABCD is a rectangle wi
to the axes. What are t
B, C, and D?




b) ∠FOA = θ, and A, B, C,
unit circle. Through wh
terminal arm pass for e
all angles are in standar
i) θ + π ii)
iii) −θ + π iv)
c) How are the answers ir
if θ is given as the mea

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ex1: Give exact values for:

$\cos\frac{\pi}{3}$ $\sin\frac{\pi}{4}$ $\tan\frac{\pi}{6}$

$\sin\frac{5\pi}{3}$ $\sec\frac{3\pi}{4}$ $\csc\frac{7\pi}{6}$

Note: $\csc\theta = \frac{1}{\sin\theta}$ $\sec\theta = \frac{1}{\cos\theta}$ $\cot\theta = \frac{1}{\tan\theta}$

These are called Reciprocal Ratios

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ex2: Give exact values for:

$\sin\left(-\frac{4\pi}{3}\right)$ $\cot\left(\frac{3\pi}{2}\right)$

$\sec\frac{\pi}{3}$ $\sin\left(\frac{-5\pi}{3}\right)$ Jacei

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ex3: Give approximate values for:

$\tan\frac{7\pi}{5}$ $\sin 4.2$ $\cos 260°$

$\csc(-70°)$ $\tan(-500°)$ Zaceg Lace

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does $y = \sin^{-1}(x)$ have any meaning?

ex4: Calculate $\sin^{-1}(0.879)$ use degs

ex5: Solve $\sin\theta = 0.879$ on the domain $0 \le \theta < 2\pi$ rad


to find 2ND angle use π − θ

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HW: 9ace, 10a, 14