

Trig Ratios II (4.3) p202 day 6

Enneagram 9 The Peacemaker

Natural mediators, inclusive  
Flexible, see other viewpoints

Core longing: peace of mind  
Core fear: loss / separation  
Deadly sin: sloth

Can find it hard to get started  
Often very easily distracted

least energy

Always let others choose - fade  
Have elements of 8 others  
Avoid conflict at all costs

"The more you nag"  
Report card silverware

14. The measure of angle  $\theta$  in standard position is  $4900^\circ$ . p202 day 6

a) Describe  $\theta$  in terms of revolutions. Be specific. ice, 10a, 14

b) In which quadrant does  $4900^\circ$  terminate?

c) What is the measure of the reference angle?

d) Give the value of each trigonometric ratio for  $4900^\circ$ .

$4900^\circ \div 360^\circ = 13.611$

$0.611 \times 360^\circ = 220^\circ$

Quiz tomorrow

9. Determine the expression, that satisfies for each

a)  $\cos 60^\circ + \sin 45^\circ$

b)  $(\sec \frac{5\pi}{3})^2$

c)  $(\tan 60^\circ)^2 - (\sec \frac{7\pi}{4})^2 + (\cot \frac{5\pi}{6})^2$

10. Determine that satisfies for each

a)  $\sin \theta$   $0 \leq \theta$

b)  $\cot \theta$   $-\pi \leq \theta$

c)  $\sec \theta$   $-180^\circ$

d)  $(\cos \theta)$   $-360^\circ$

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ex1: Solve  $\sin \theta = -\frac{\sqrt{3}}{2}$  on  $[0, 2\pi)$  rad domain  $0 \leq \theta < 2\pi$

$\theta = \frac{4\pi}{3}, \frac{5\pi}{3}$

b) What if the domain was  $[-\pi, 2\pi)$

$\theta = \frac{4\pi}{3}, \frac{5\pi}{3}$  and  $-\frac{2\pi}{3}, -\frac{\pi}{3}$

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ex2: Solve  $\cos \theta = -0.366$  on  $[0, 2\pi)$

$\theta = 1.95$

$2\pi - 1.95 = 4.34$

b) What if the domain was  $[-\pi, \pi)$

$\theta = 1.95$

$4.34 - 6.28 = -1.94$

$\cot \theta = 1$

$\tan \theta = \frac{1}{1}$

$\theta = \frac{\pi}{4}, \frac{5\pi}{4}$

$[0, 2\pi)$

11.6)  $\tan \theta = -4.87$   $[-\frac{\pi}{2}, \pi)$


$\theta = -1.37$


$-1.37 + 3.14 = 1.77$


$\theta = 1.77$

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To find the other angle

sine   $\pi - \theta$   $180^\circ - \theta$

cosine   $2\pi - \theta$   $360^\circ - \theta$

tangent   $\theta + \pi$   $\theta + 180^\circ$   
 $(6, 2\pi)$   
 $11ab$

S	A
T	C

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ex3: State the values of the 6 trig ratios for P(5, -3).

12ac  
9b


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#w: p202#11cd, 15

Quiz tomorrow

Attachments

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 quiz5.pdf