

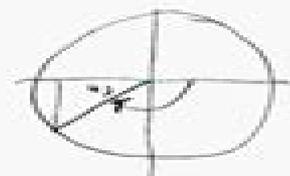
Find the point (x,y) on the unit circle that corresponds to the real number t (3 pt each problem)

Key A

10. $t = -\frac{3\pi}{4}$ $\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$

11.

$t = \frac{5\pi}{6}$ $\left(\frac{-\sqrt{3}}{2}, \frac{1}{2}\right)$



12. Find the exact values of the trigonometric functions below, if $(-5, 3)$ is a point on the terminal side of θ .

(3 points each blank)

$\tan \theta = -\frac{3}{5}$ $\sin \theta = \frac{3}{\sqrt{34}} = \frac{3\sqrt{34}}{34}$ $\cos \theta = \frac{-5}{\sqrt{34}} = \frac{-5\sqrt{34}}{34}$

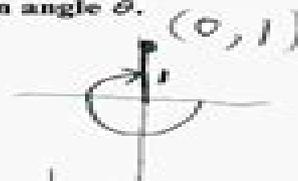
$\frac{\sqrt{9+25}}{\sqrt{34}}$



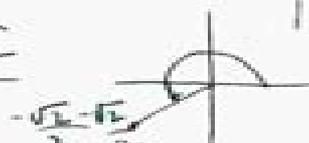
Find the exact values (if possible) of the trigonometric functions below with the given angle θ .

(2 points each blank)

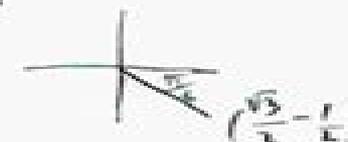
13. $\theta = \frac{-3\pi}{2}$ $\tan \theta = \text{undefined}$ $\sin \theta = 1$ $\sec \theta = \text{undefined}$



14. $\theta = \frac{5\pi}{4}$ $\cos \theta = \frac{-\sqrt{2}}{2}$ $\cot \theta = 1$ $\csc \theta = -\sqrt{2}$



15. $\theta = \frac{-\pi}{6}$ $\tan \theta = \frac{-1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$ $\sin \theta = -\frac{1}{2}$ $\sec \theta = \frac{2\sqrt{3}}{3}$



State the quadrant in which θ lies. (2 points each blank)

16. $\sin \theta < 0$ and $\cos \theta > 0$ IV

17. $\sin \theta > 0$ and $\tan \theta < 0$ II

18. Sketch a right triangle corresponding to the trigonometric function of the acute angle θ . (2 points each blank) then find the indicated trigonometric functions of θ .

$\sin \theta = \frac{5}{7}$ $\csc \theta = \frac{7}{5}$ $\sec \theta = \frac{7}{2\sqrt{6}} = \frac{7\sqrt{6}}{12}$ $\cos \theta = \frac{2\sqrt{6}}{7}$



$\sqrt{49-25}$

Complete the Pythagorean Identities below: (2 points each blank)

19. $\sin^2 \theta + \cos^2 \theta = 1$

20. $1 + \tan^2 \theta = \sec^2 \theta$

21. Find the reference angle θ' , and sketch θ and θ' in standard position. (4 pt each problem)

$\theta = \frac{-2\pi}{3}$ $\theta' = \frac{\pi}{3}$



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The Editors of Rea,Max Fogiel



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