

## Algebra II Homework #22

- 1) Find:  $\sin 205^\circ$
- 2) Solve:  $\log_2(3x^2 - 9x) - \log_2(2x - 1) = 3$
- 3) Find:  $\cos 141^\circ$
- 4) Solve:  $\sqrt{2x - 1} = 2 + \sqrt{x - 4}$
- 5) Find:  $\tan 259^\circ$
- 6) Find:  $\cos 45^\circ$
- 7) Find all the values of  $\theta$ :  $\sin \theta = \frac{\sqrt{2}}{2}$
- 8) Convert  $\frac{3\pi}{4}$  radians into degrees.
- 9) Find:  $\tan 315^\circ$
- 10) Find all the values of  $\theta$ :  $\cos \theta = -\frac{1}{2}$
- 11) Convert 270 degrees into radians.
- 12) Find:  $\sin 150^\circ$
- 13) Find all the values of  $\theta$ :  $\tan \theta = -\sqrt{3}$
- 14) Convert 225 degrees into radians.
- 15) Find:  $\cos(\pi)$
- 16) Find all the values of  $\theta$ :  $\sin \theta = 0$
- 17) Find:  $\sin\left(\frac{5\pi}{3}\right)$
- 18) Find  $\cos \theta$  and  $\tan \theta$  if  $\sin \theta = -\frac{1}{2}$  and  $\theta$  lies in quadrant III.
- 19) Find  $\tan \theta$  and  $\sin \theta$  if  $\cos \theta = \frac{\sqrt{2}}{2}$  and  $\theta$  lies in quadrant I.
- 20) Find:  $\cos\left(\frac{3\pi}{2}\right)$

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