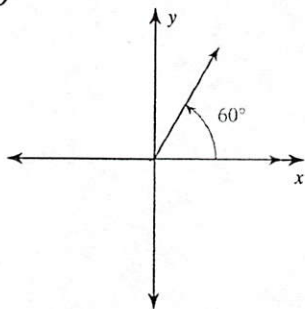


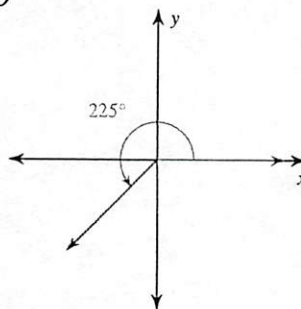
Exact Trig Values of Special Angles

Find the exact value of each trigonometric function.

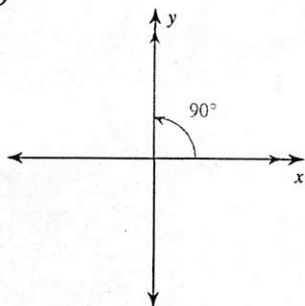
1) $\tan \theta$



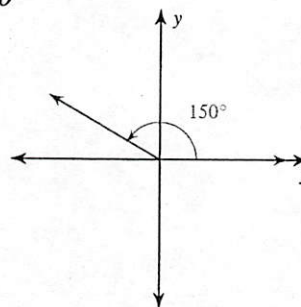
2) $\sin \theta$



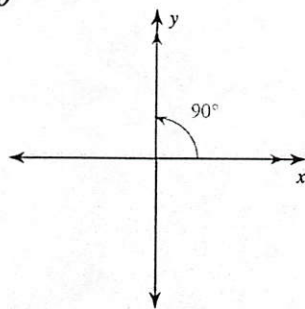
3) $\sin \theta$



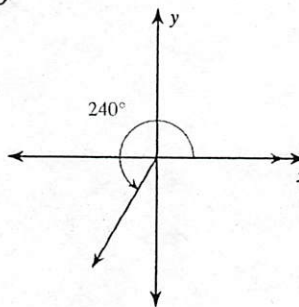
4) $\cos \theta$



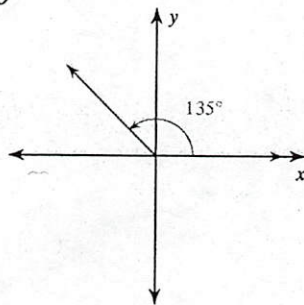
5) $\cos \theta$



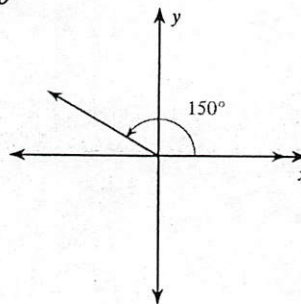
6) $\tan \theta$



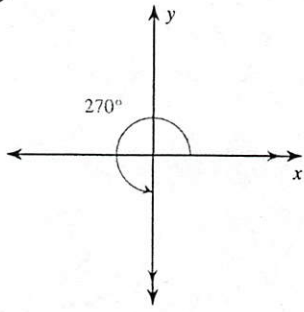
7) $\cos \theta$



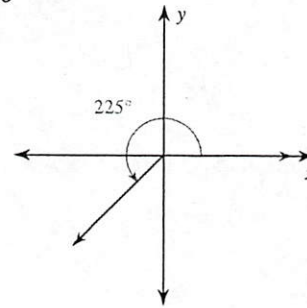
8) $\tan \theta$



9) $\cos \theta$



10) $\tan \theta$



11) $\cos 270^\circ$

12) $\sin 0$

13) $\cot \frac{7\pi}{4}$

14) $\csc \frac{2\pi}{3}$

15) $\csc 225^\circ$

16) $\sin 300^\circ$

17) $\csc 90^\circ$

18) $\tan 240^\circ$

19) $\sin \frac{\pi}{4}$

20) $\tan 120^\circ$

21) $\tan -\frac{13\pi}{6}$

22) $\cos -630^\circ$

23) $\cos 990^\circ$

24) $\csc -\frac{31\pi}{6}$

25) $\csc -\frac{5\pi}{6}$

26) $\cos -\frac{17\pi}{3}$

27) $\sin \frac{29\pi}{6}$

28) $\sec 945^\circ$

29) $\cos -\frac{11\pi}{2}$

30) $\sin -2\pi$

Name _____

Date _____

WORKSHEET - THE BASIC 8 TRIG IDENTITIES

Simplify each expression to a single trig function or number.

1. $\sec \theta \sin \theta$

2. $\cos \theta \tan \theta$

3. $\tan^2 \theta - \sec^2 \theta$

4. $1 - \cos^2 \theta$

5. $(1 - \cos \theta)(1 + \cos \theta)$

6. $(\sec x - 1)(\sec x + 1)$

7. $\frac{1}{\sin^2 A} - \frac{1}{\tan^2 A}$

8. $1 - \frac{\sin^2 \theta}{\tan^2 \theta}$

9.
$$\frac{1}{\cos^2 \theta} - \frac{1}{\cot^2 \theta}$$

10.
$$\cos \theta (\sec \theta - \cos \theta)$$

11.
$$\cos^2 A (\sec^2 A - 1)$$

12.
$$(1 - \cos x)(1 + \sec x)(\cos x)$$

13.
$$\frac{\sin x \cos x}{1 - \cos^2 x}$$

14.
$$\frac{\tan^2 \theta}{\sec \theta + 1} + 1$$