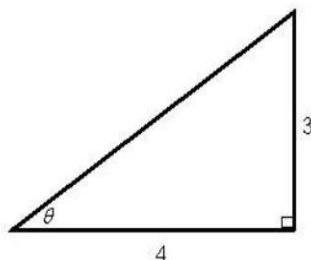


Unit 4: Introduction to Trigonometry

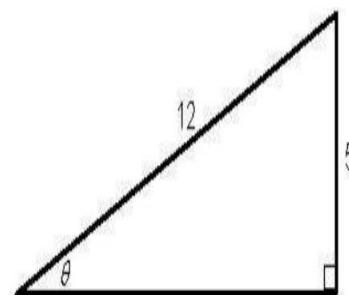
I. Find the exact values of the six trigonometric Functions of θ . No decimals! Write your answer in simplest form. Be sure to find the missing side! Show work.

1.



Missing side:

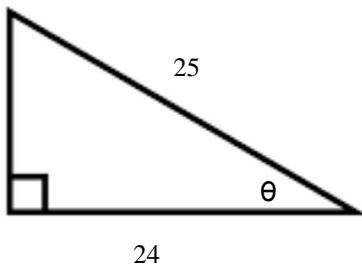
2.



Missing side:

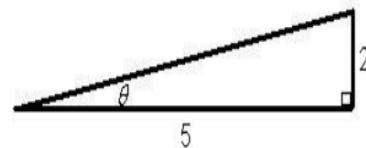
$\sin \theta =$	$\csc \theta =$	$\sin \theta =$	$\csc \theta =$
$\cos \theta =$	$\sec \theta =$	$\cos \theta =$	$\sec \theta =$
$\tan \theta =$	$\cot \theta =$	$\tan \theta =$	$\cot \theta =$

3.



Missing side:

4.

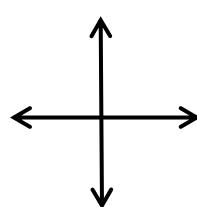


Missing side:

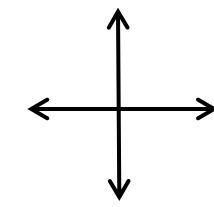
$\sin \theta =$	$\csc \theta =$	$\sin \theta =$	$\csc \theta =$
$\cos \theta =$	$\sec \theta =$	$\cos \theta =$	$\sec \theta =$
$\tan \theta =$	$\cot \theta =$	$\tan \theta =$	$\cot \theta =$

II. Sketch each of the following angles in standard position.

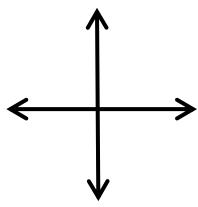
5. 150°



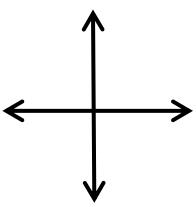
6. -120°



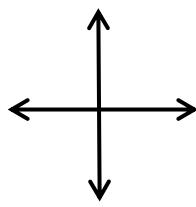
7. $-\frac{7\pi}{4}$



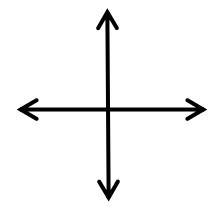
8. $\frac{2\pi}{3}$



9. 480°



10. -30°



III. Determine the quadrant in which the terminal side of the angle lies.

11. 130° _____

12. -336° _____

13. 285° _____

14. -260° _____

15. $\frac{22\pi}{3}$ _____

16. $\frac{7\pi}{5}$ _____

17. $-\frac{17\pi}{3}$ _____

18. $-\frac{\pi}{12}$ _____

19. 415° _____

20. 1020° _____

21. 718° _____

22. -63° _____

IV. Express each of the following in radian measure. Leave your answer in terms of π .

23. 150° _____

24. 315° _____

25. -240° _____

26. 115° _____

27. 345° _____

28. -216° _____

V. Express each of the following in degree measure.

29. $\frac{5\pi}{9}$ _____

30. $-\frac{7\pi}{12}$ _____

31. $\frac{11\pi}{5}$ _____

32. $\frac{40\pi}{3}$ _____

33. $-\frac{19\pi}{3}$ _____

34. 121π _____