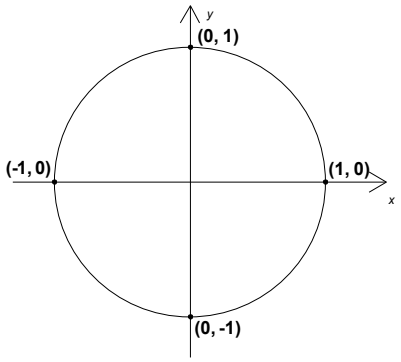
Secondary 2H **Name**_____ **Desk** _____

Unit 9 **Trigonometric Functions of Acute Angles**

Score _____

Evaluate the following without using a calculator.

1. $\sin 30°$
2. $\cos\theta = \frac{1}{2}$
3. $\cot 30°$
4. $\csc 45°$
5. $\sin\theta = \frac{\sqrt{3}}{2}$
6. $\cos 60°$
7. $\sin\theta = \frac{\sqrt{2}}{2}$
8. $\sin 60°$
9. $\sin 45°$
10. $\cos 30°$
11. $\csc 60°$
12. $\tan 60°$
13. $\tan 45°$
14. $\tan\theta = \frac{\sqrt{3}}{3}$
15. $\sec 30°$
16. $\cos 60°$

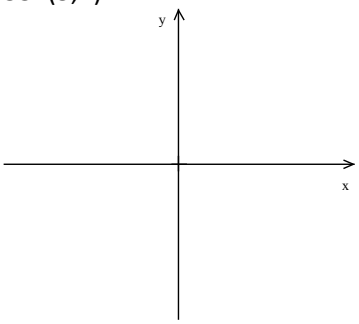


Evaluate the following without using a calculator. Use the unit circle to help if needed. (Hint: they are not all quadrantal angles).

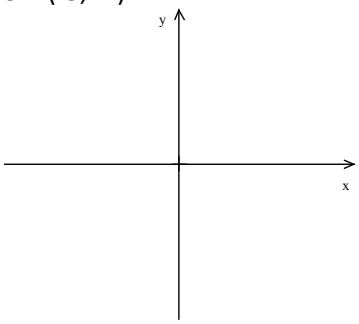
17. $\tan 60°$
18. $\sin 90°$
19. $\cot 180°$
20. $\cos 0°$
21. $\sin 180°$
22. $\tan 270°$
23. $\cos 270°$
24. $\sin 45°$
25. $\cos 90°$
26. $\sin 360°$
27. $\sin 60°$
28. $\cos 180°$
29. $\sin\theta = -1$
30. $\tan\theta = 1$
31. $\sin\theta = \frac{\sqrt{2}}{2}$
32. $\cos\theta = 1$

Let θ be the acute angle in standard position whose terminal side contains the given point. Find the six trigonometric functions of θ. SHOW YOUR WORK!!

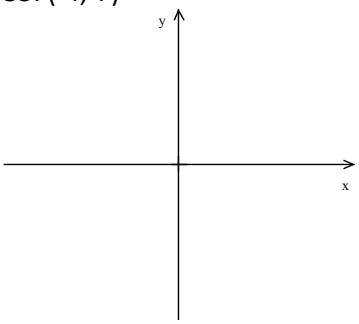
33. (3,4)



34. (-5,12)



35. (-4,-7)



36. (2,-7)