Name_____

Date_____

Advanced Algebra
Unit 10 Trig Assignment #4

Sketch a picture of the angle if the point given is on the terminal side of the angle. Find all six trigonometric functions of θ.

1. (3, 4)   2. (-3, 4)   3. (-5, 12)

7. (-1, -2)   9. (-3, 0)

Draw each angle in standard position, find a point on the terminal side, then find the **sin, cosine and tangent.**

10. 135   11. 225   12. 90

13. 180   14. -45   15. -135

Determine the quadrant(s) in which the terminal side of θ must lie in order that the following are true.

16. $cos\theta$ is positive   17. $cos\theta$ is negative

18. $sin\theta$ is negative and $tan\theta$ is positive

19. $sin\theta$ is positive and $tan\theta$ is negative

20. $sin\theta$ is negative and $tan\theta$ is positive

21. $sin\theta$ is positive and $cos\theta$ is negative

Find the remaining 5 trig functions of θ if

22. $sin\theta = \frac{12}{13}$ and θ terminates in Q1

23. $sin\theta = \frac{12}{13}$ and θ terminates in Q2

24. $sin\theta = \frac{8}{17}$ and θ terminates in Q1

25. $sin\theta = \frac{15}{17}$ and θ terminates in Q1

26. $cos\theta = \frac{24}{25}$ and θ terminates in Q4