13.3 Trig Functions of General Angles HW Day 1 Geometry

Find the exact values of the 3 trig functions of θ if the terminal side in standard position contains the given point.

1. (7,24)

2. (2,1)

3. (5,-8)

4. (4,-3)

5. (0,-6)

6. (-1,0)

7. $(\sqrt{2}, -\sqrt{2})$

8. $(-\sqrt{3}, -\sqrt{6})$

Suppose θ is an angle in standard position whose termianal side is in the given quadrant. For each function, find the exact values of the remaining five trig functions. (Find sin, cos and tan)

9. $\cos\theta = {}^{3}/_{5}$, Quadrant IV

10. $\tan\theta = {}^{-1}/_{5}$, Quadrant II

11. $\sin\theta = {}^{1}/_{3}$, Quadrant II

12. $\cot\theta = {}^{1}/_{2}$, Quadrant III

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Review:

Sketch each angle. Then find its reference angle.

34. 315°

35. 240°

36. $\frac{5\pi}{4}$

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37. $\frac{5\pi}{6}$

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38. $-210°$

39. $-125°$

40. $\frac{13\pi}{7}$

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41. $-\frac{2\pi}{3}$

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