

Pre-calc Book pg. 251

The given point lies on the terminal side of an angle θ in standard position. Find the values of the six trigonometric functions of θ .

1. $(3, 4)$

2. $(-6, 6)$

3. $(-4, -3)$

4. $(2, 0)$

5. $(1, -8)$

6. $(5, -3)$

7. $(-8, 15)$

8. $(-1, -2)$

Find the exact values of the five remaining trigonometric functions of θ .

33. $\tan \theta = 2$, where $\sin \theta > 0$ and $\cos \theta > 0$

34. $\csc \theta = 2$, where $\sin \theta > 0$ and $\cos \theta < 0$

35. $\sin \theta = -\frac{1}{5}$, where $\cos \theta > 0$

36. $\cos \theta = -\frac{12}{13}$, where $\sin \theta < 0$

37. $\sec \theta = \sqrt{3}$, where $\sin \theta < 0$ and $\cos \theta > 0$

38. $\cot \theta = 1$, where $\sin \theta < 0$ and $\cos \theta < 0$

39. $\tan \theta = -1$, where $\sin \theta < 0$

40. $\cos \theta = -\frac{1}{2}$, where $\sin \theta > 0$