

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 $\sin \theta > 0$