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

36. $\cos \theta = -\dfrac{12}{13}$, 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. $\cos \theta = -\dfrac{1}{2}$, where $\sin \theta > 0$

Find the exact value of each expression.

25. $\cos \dfrac{4\pi}{3}$

26. $\tan \dfrac{7\pi}{6}$

27. $\sin \dfrac{3\pi}{4}$

28. $\cot (-45°)$

29. $\csc 390°$

30. $\sec (-150°)$

31. $\tan \dfrac{11\pi}{6}$

32. $\sin 300°$