Sine, Cosine, and Tangent in the First Quadrant of the Unit Circle

Find the exact value of the angle in the first quadrant.

1) $\sin \dfrac{\pi}{3}$

2) $\tan \dfrac{\pi}{3}$

3) $\tan \dfrac{\pi}{4}$

4) $\cos \dfrac{\pi}{6}$

5) $\sin \dfrac{\pi}{6}$

6) $\cos \dfrac{\pi}{2}$

7) $\cos 60°$

8) $\tan 0°$

9) $\tan 30°$

10) $\sin 90°$

11) $\cos 30°$

12) $\sin 45°$

Give your answer in degrees and radians.

13) At which angle is $\sin \theta = \dfrac{1}{2}$?

14) At which angle is $\cos \theta = \dfrac{1}{2}$?

15) At which angle is $\tan \theta = 1$?

16) At which angle is $\cos \theta = \sin \theta$?

17) At which angle is $\sin \theta = \dfrac{\sqrt{3}}{2}$?

18) At which angle is $\cos \theta = \dfrac{\sqrt{3}}{2}$?