

Without a calculator, solve each of the equations in 1-18 **exactly** for  $q$ ,  $0 \leq q < 2\pi$ .  
Draw  $q$  in standard position.

1.  $\sin q = \frac{\sqrt{2}}{2}$

10.  $\cos q = -\frac{1}{2}$

2.  $\sin q = 1$

11.  $\cos q = 0$

3.  $\cos q = \frac{\sqrt{2}}{2}$

12.  $\sin q = -\frac{1}{2}$

4.  $\cos q = \frac{1}{2}$

13.  $\cos q = -\frac{\sqrt{2}}{2}$

5.  $\sin q = \frac{\sqrt{3}}{2}$

14.  $\sin q = -1$

6.  $\sin q = \frac{1}{2}$

15.  $\sin q = -\frac{\sqrt{3}}{2}$

7.  $\sin q = -\frac{\sqrt{2}}{2}$

16.  $\cos q = -1$

8.  $\cos q = \frac{\sqrt{3}}{2}$

17.  $\sin q = 0$

9.  $\cos q = 1$

18.  $\cos q = -\frac{\sqrt{3}}{2}$