What is the angle of rotation to get to the following points?

1) \((0,1)\)  
2) \((\frac{\sqrt{3}}{2}, \frac{1}{2})\)  
3) \((\frac{-\sqrt{2}}{2}, \frac{\sqrt{2}}{2})\)  
4) \((\frac{-1}{2}, \frac{-\sqrt{3}}{2})\)  
5) \((\frac{-\sqrt{3}}{2}, \frac{1}{2})\)  
6) \((-1,0)\)  
7) \((\frac{1}{2}, \frac{\sqrt{3}}{2})\)  
8) \((\frac{\sqrt{3}}{2}, \frac{-1}{2})\)  
9) \((\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})\)  
10) \((\frac{1}{2}, \frac{-\sqrt{3}}{2})\)