Solve:

1) $\text{arcsec}\left(\frac{2\sqrt{3}}{3}\right) =$

2) $\arctan(-1) =$

3) $\text{arccsc}(2) =$

4) $\sec^{-1}\left(\sqrt{2}\right) =$

5) $\sec(\text{arccot}(^{24}/_{7})) =$

6) $\text{arcsec}(-2) =$

7) $\tan(\arccos(^{1}/_{2})) =$

8) $\sec(\text{arccsc}(-\sqrt{2})) =$

9) $\sec^{-1}(-2) =$

10) $\cos\left(\arcsin\left(-\frac{\sqrt{3}}{2}\right)\right) =$