

AP Precalculus
Unit 3 Practice B

Name: _____

Find the exact value(s) of each expression in radians. You may not use a calculator. Be mindful of the range restrictions of the “arc” functions.

1. $\theta = \arcsin\left(\frac{1}{2}\right)$	2. $\theta = \arccos(0)$	3. $\theta = \arctan(1)$
4. $\theta = \arccos(-1)$	5. $\theta = \arcsin\left(-\frac{\sqrt{3}}{2}\right)$	6. $\theta = \arctan(\sqrt{3})$
7. $\theta = \arctan\left(-\frac{1}{\sqrt{3}}\right)$	8. $\theta = \arcsin\left(-\frac{\sqrt{2}}{2}\right)$	9. $\theta = \arccos\left(\frac{\sqrt{2}}{2}\right)$
10. $\theta = \operatorname{arccot}(-\sqrt{3})$	11. $\theta = \operatorname{arccsc}\left(-\frac{2}{\sqrt{3}}\right)$	12. $\theta = \operatorname{arccot}\left(-\frac{1}{\sqrt{3}}\right)$
13. $\theta = \operatorname{arcsec}(-2)$	14. $\theta = \operatorname{arccsc}(\sqrt{2})$	15. $\theta = \operatorname{arccot}(-1)$
16. $\theta = \operatorname{arcsec}(-\sqrt{2})$	17. $\theta = \operatorname{arccsc}(-1)$	18. $\theta = \operatorname{arcsec}\left(-\frac{2}{\sqrt{3}}\right)$