

**2013 Mu Alpha Theta National Convention
Hustle—Trigonometry
Answers**

1. $\sqrt{58}$ (units)
2. 1
3. $\frac{73}{55}$ (must be written as a fraction; not mixed number nor decimal)
4. $\cot A$
5. $\frac{\sqrt{2}}{2}$
6. 60° and 300°
7. 20°
8. $2\sqrt{2}e^{\frac{\pi}{4}i}$
9. $(1, \sqrt{3})$ (must be an ordered pair)
10. 64
11. 0
12. $50\sqrt{3}$ ($units^2$)
13. $\frac{13}{27}$ (must be a fraction)
14. $\frac{3}{4}\sqrt{15}$ (in^2)
15. $\sin\theta$
16. $\cos\alpha$
17. 60°
18. $\frac{\pi}{2}$ ONLY
19. $-\frac{33}{65}$
20. $\frac{5\sqrt{14}}{21}$
21. $-3-2\sqrt{2}$
22. $\frac{\pi}{4}$
23. 14
24. $(5\sqrt{2}, -2\sqrt{2})$
25. $\frac{3\sqrt{10}}{10}$