

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

1. $3\sqrt{13}$
2. $(-\infty, 2]$ (must be in interval notation)
3. $\sqrt{83}$
4. $\frac{64}{243}$ (must be in fraction form)
5. $-1 \pm \sqrt{2}i$ (or equivalent)
6. $\frac{25}{2}(\text{units}^2)$ (or equivalent)
7. $x = 2, x = 3$ (order doesn't matter)
8. 8π
9. $y = \frac{5}{4}x + \frac{11}{2}$ (or equivalent)
10. 606
11. 6
12. 1
13. -126
14. 60 (hours)
15. $(\sqrt{2}, 1)$ (must be an ordered pair)
16. 11,400 (years)
17. -79
18. 108
19. $\frac{11}{34} + \frac{41}{34}i$ (MUST be written as two separate fractions)
20. 10
21. 2
22. $\frac{-5 \pm \sqrt{17}}{2}$ (or equivalent)
23. -24
24. 60,000
25. $24x^2y^2$