

Texas A&M, Department of Mathematics
High School Exam
November 18, 2000
Solutions to DE Exam

1. $\sqrt{5}$
2. 8, 18
3. $3(\sqrt{2} - 1)$
4. 30
5. 9
6. 100π
7. $\frac{3}{\sqrt{10}}$
8. 16
9. $-7 < x < \frac{1}{2}$
10. 24
11. $\frac{n(n-1)}{2}$
12. 6
13. 6
14. 14
15. $\frac{2}{5}\sqrt{3}$
16. (a) 1
(b) 35
(c) 4
17. $\pi + 2\sqrt{2}$
18. 29
19. -105
20. $(-\infty, -2) \cup (0, \infty)$
21. $\sqrt{5} - 1$
22. $5 + \frac{3\sqrt{2}}{4}$
23. $(\frac{102}{37}, \frac{100}{37})$