

Answer Key

Math 1151 Fall 2001 Final Exam

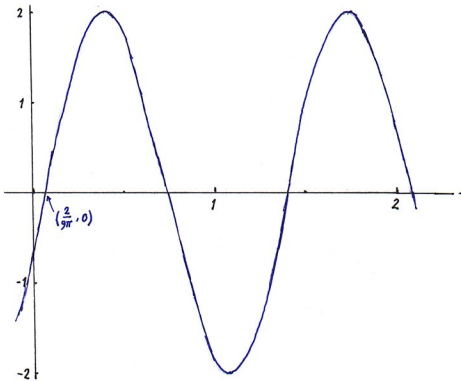
Multiple Choice Problems

1. A
2. C
3. B
4. C
5. C
6. C
7. D
8. D
9. A
10. D
11. B
12. D

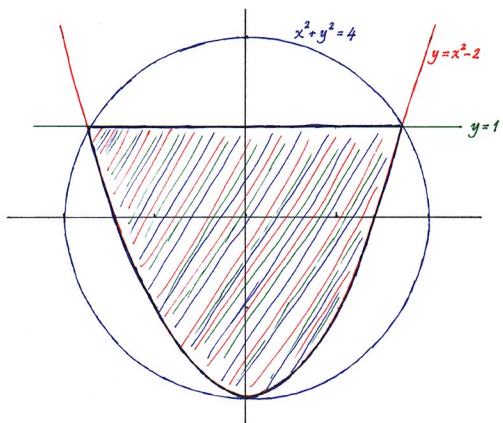
Written Answer Problems

13. see graph below
14. $\theta = 0$, $\theta = \pi/2$
15. sum: 5355
16. $x = 1$, $-1 \pm i$
17. see graph below
18. $x = 0$, $y = 2$, $z = 1$
19. center: $(2, 1)$; vertices: $(2, -2)$, $(2, 4)$;
foci: $(2, 1 \pm \sqrt{5})$; graph on other side
20. $\cos \theta = -4/5$, $\tan \theta = -3/4$,
 $\cot \theta = -4/3$, $\sec \theta = -5/4$, $\csc \theta = -5/3$
21. side opposite 30° angle: ≈ 3.11
side opposite 45° angle: ≈ 4.39
area of triangle: ≈ 6.59

graph for #13:



graph for #17:



graph for #19:

