

Introduction to MATLAB, Third Edition

by Delores M. Etter

Solution Manual

Chapter 1

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|----------------------|----------------------|-----------------------|---------|---------|
| 1. F | 2. T | 3. F | 4. T | 5. F |
| 6. F | 7. F | 8. F | 9. T | 10. T |
| 11. T | 12. F | 13. F | 14. T | 15. T |
| 16. F | 17. F | 18. F | 19. F | 20. T |
| 21. (d) | 22. (b) | 23. (c) | 24. (a) | 25. (a) |
| 26. (b) | 27. (e) | 28. (c) | 29. (d) | 30. (c) |
| 31. (a) | 32. (b) | 33. (c) | | |
| 34. program | 35. hardware | 36. CPU | | |
| 37. output devices | 38. system software | 39. algorithm | | |
| 40. compilation | 41. spreadsheet | 42. syntax or grammar | | |
| 43. operating system | 44. ALU | 45. debugging | | |
| 46. logic errors | 47. utilities | 48. microprocessor | | |
| 49. word processor | 50. machine language | | | |

Chapter 2

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|---------------|--------------|--------------|
| 1. not legal | 2. not legal | 3. legal |
| 4. legal | 5. legal | 6. not legal |
| 7. not legal | 8. legal | 9. not legal |
| 10. not legal | 11. legal | |
12. valid function names: **global, help, sin, input**
- | | | |
|----------|------------|--------|
| 13. 1.75 | 14. 60 | 15. 60 |
| 16. 75 | 17. 15,625 | 18. 9 |
| 19. 1 | | |
20. **5^2**
21. **(5+3) / (5*6)**
22. **(4+6^3)^0.5**
23. **9*(6/12)+7*5^(3+2)**
24. **1+5*3/(6*6)+2^(2-4)*1/5.5**
25. **r = 5;**
area = pi*r*r
26. **r = 10;**
surface = 4*pi*r*r