

## 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`