

# Applied Mechanics for Engineering Technology 8th Edition

## Solution Manual

|      |                                                                                                                                                                                   |      |                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-1  | $24 + 8x - 12x = 8x$<br>$8x - 12x - 8x = -24$<br>$x = 2$                                                                                                                          | 1-17 | $R = 5 \text{ m}$ $\theta = 36.9^\circ$<br>$R = 13 \text{ m}$ $\theta = 47.9^\circ$<br>$R = 17$ $\theta = 28.1^\circ$                                   |
| 1-2  | $12 + 6x + 3 = 27$<br>$6x = 27 - 12 - 3$<br>$x = 2$                                                                                                                               | 1-18 | $\tan 20 = \frac{A}{2}$ $A = 2.18 \text{ m}$<br>$\tan 40 = \frac{A}{7}$ $A = 3.36 \text{ ft}$<br>$\tan 55 = \frac{20}{A}$ $A = 14 \text{ m}$            |
| 1-3  | $28 = \frac{5}{4}x + \frac{5}{12}x$<br>$= \frac{5}{12}x + \frac{5}{12}x$<br>$= \frac{10}{12}x$<br>$28 \times \frac{3}{10} = x$<br>$x = 24$                                        | 1-19 | $\sin \theta = \frac{25}{40}$ $\theta = 38.7^\circ$                                                                                                     |
| 1-4  | $\textcircled{1} \times 5$ $10x + 40y = 100$<br>$\textcircled{2} \times -2$ $-12x + 6y = -20$<br><hr/> $42y = 80$<br>$y = 1.74$                                                   | 1-20 | $\tan 65 = \frac{y}{4}$ $y = 8.58 \text{ mm}$                                                                                                           |
| 1-5  | $\textcircled{1} \times 8$ $176x + 24y = 968$<br>$\textcircled{2} \times 3$ $19x - 24y = 144$<br><hr/> $255x + 0 = 1112$<br>$x = 5.28$                                            | 1-21 | $\sin \theta = \frac{33}{72}$ $\theta = 27.3^\circ$                                                                                                     |
| 1-6  | $x = \frac{+25 \pm \sqrt{(-4)^2 - (4)(1)(-20)}}{2(1)}$<br>$= \frac{+25 \pm 26.5}{2}$<br>$= 0.865 \text{ m} = 0.712$                                                               | 1-22 | $c^2 = 15^2 + 42^2 - 2(15)(42)\cos 120$<br>$c = 51.2 \text{ cm}$                                                                                        |
| 1-7  | $(3x)x + \frac{5}{2}(x) = 8(x)$<br>$3x^2 - 8x + 5 = 0$<br>$x = \frac{-(-8) \pm \sqrt{(-8)^2 - (4)(3)(5)}}{2(3)}$<br>$x = \frac{+8 \pm \sqrt{64 - 60}}{6}$<br>$x = 1.67 \text{ m}$ | 1-23 | $c^2 = 15^2 + 25^2 - 2(15)(25)\cos 65$<br>$c = 23.1 \text{ ft}$                                                                                         |
| 1-8  | $a = 35^\circ$ opposite angle<br>$b = 180 - 35 - 90 = 55^\circ$<br>$c = 180 - 55 - 125 = 125^\circ$                                                                               | 1-24 | $(5)^2 = 3^2 + 4^2 - 2(3)(4)\cos \theta$<br>$\theta = 77.36^\circ$ (2nd quadrant)<br>or $\theta = 102.6^\circ$                                          |
| 1-9  | $a = 80^\circ$ opposite angle<br>$b = 180 - 80 = 100^\circ$<br>$c = 100^\circ$ opposite angle                                                                                     | 1-25 | $(60)^2 = 55^2 + 30^2 - 2(55)(30)\cos 25$<br>$CB = 46.2 \text{ m}$                                                                                      |
| 1-10 | $a = 30 - 40 = 50^\circ$<br>$b = 15^\circ$ opposite angle<br>$c = 180 - 50 - 15 = 115^\circ$<br>$d = 180 - 115 = 65^\circ$<br>$e = 65^\circ$ opposite angle                       | 1-26 | $d^2 = c^2 + b^2 - 2cb\cos 130$<br>$d = 12.7 \text{ m}$                                                                                                 |
| 1-11 | $\frac{21}{7} = \frac{20}{5}$ $CD = \frac{21}{5} \times 5 = 15 \text{ m}$                                                                                                         | 1-27 | $(60)^2 = (20)^2 + (4)^2 - 2(20)(4)\cos 16^\circ$<br>$CD = 0.174 \text{ m}$                                                                             |
| 1-12 | $\frac{CE}{5} = \frac{12.5}{5}$ $CE = 12.5 \times 8 = 20 \text{ m}$                                                                                                               | 1-28 | $\frac{A}{\sin 20} = \frac{50}{\sin 20}$ $A = 127 \text{ m}$                                                                                            |
| 1-13 | $A = 20 \sin 38 = 12.3 \text{ m}$                                                                                                                                                 | 1-29 | $\frac{AC}{\sin 73} = \frac{640}{\sin 42}$ $AC = 913 \text{ ft}$<br>$\frac{AD}{\sin 65} = \frac{640}{\sin 42}$ $AD = 865 \text{ ft}$                    |
| 1-14 | $\cos \theta = \frac{9}{10}$ $\theta = 66.4^\circ$                                                                                                                                | 1-30 | $\frac{d}{\sin 40} = \frac{18}{\sin 25}$ $d = 3.32 \text{ m}$                                                                                           |
| 1-15 | $\tan \theta = \frac{4}{A}$ $A = 16.5 \text{ ft}$                                                                                                                                 | 1-31 | $\frac{c}{\cos \theta} = \frac{12}{\cos 73}$ $\theta = 73^\circ$                                                                                        |
| 1-16 | $\tan 70 = \frac{y}{x}$ $y = 11 \text{ m}$                                                                                                                                        | 1-32 | $\frac{6}{\sin 70} = \frac{x}{\sin 40}$<br>$x = 4.1 \text{ ft}$<br> |
| 1-17 |                                                                                                                                                                                   | 1-33 | $\tan \theta = \frac{1}{10}$ $\theta = 5.7^\circ$<br>included angle = $144^\circ$                                                                       |
| 1-18 |                                                                                                                                                                                   | 1-34 | $\cos 50 = \frac{y}{10}$ $y = 6.43 \text{ m}$<br>$h = 10 - 6.43 = 3.57 \text{ m}$                                                                       |
| 1-19 |                                                                                                                                                                                   | 1-35 | $x = 3.3 \cos 55 = 1.9 \text{ m}$<br>$y = 3.3 \sin 55 = 2.7 \text{ m}$                                                                                  |
| 1-20 |                                                                                                                                                                                   | 1-36 | corner width = $1.875 / \cos 30 = 2.17 \text{ m}$                                                                                                       |

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**Daniel F McAuley**



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## **Table of Contents Applied Mechanics For Engineering Technology 8th Edition Solution Manual**

1. Understanding the eBook Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - The Rise of Digital Reading Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Personalized Recommendations
  - Applied Mechanics For Engineering Technology 8th Edition Solution Manual User Reviews and Ratings
  - Applied Mechanics For Engineering Technology 8th Edition Solution Manual and Bestseller Lists
5. Accessing Applied Mechanics For Engineering Technology 8th Edition Solution Manual Free and Paid eBooks
  - Applied Mechanics For Engineering Technology 8th Edition Solution Manual Public Domain eBooks
  - Applied Mechanics For Engineering Technology 8th Edition Solution Manual eBook Subscription Services
  - Applied Mechanics For Engineering Technology 8th Edition Solution Manual Budget-Friendly Options

6. Navigating Applied Mechanics For Engineering Technology 8th Edition Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Applied Mechanics For Engineering Technology 8th Edition Solution Manual Compatibility with Devices
  - Applied Mechanics For Engineering Technology 8th Edition Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Highlighting and Note-Taking Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Interactive Elements Applied Mechanics For Engineering Technology 8th Edition Solution Manual
8. Staying Engaged with Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Applied Mechanics For Engineering Technology 8th Edition Solution Manual
9. Balancing eBooks and Physical Books Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Applied Mechanics For Engineering Technology 8th Edition Solution Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Setting Reading Goals Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Fact-Checking eBook Content of Applied Mechanics For Engineering Technology 8th Edition Solution Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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