Applied Mechanics for Engineering Technology 8th Edition Solution Manual

1-1

$$24 + 6x - 12x = 8x$$
$$6x - 12x - 8x = -24$$
$$x = 2$$

1-2

$$12 + 6x + 3 = 27$$
$$6x = 27 - 12 - 3$$
$$x = 2$$

1-3

$$28 = \frac{3}{4}x + \frac{5}{12}x$$
$$-\frac{3}{12}x + \frac{5}{12}x$$
$$= \frac{14}{12}x$$
$$\frac{28 \times 12}{14} = x$$
$$x = 24$$

1-4

① × 5 $\quad 10x + 40y = 100$
② × −3 $\quad -12x + 6y = -20$
$$46y = 80$$
$$y = 1.74$$

1-5

① × 8 $\quad 176x + 24y = 328$
② × 3 $\quad 19x - 24y = 168$
$$245x + 0 = 496$$
$$x = 5.28$$

1-6

$$x = \frac{+2 \pm \sqrt{4 - (4)(1)(-5)}}{(2)(1)}$$
$$= \frac{+2 \pm 4.5}{2}$$
$$= 0.85 \text{ and } -3.5$$

1-7

$$(3x)x + \frac{5}{2}(x) = 80(x)$$
$$3x^2 - 8x + 5 = 0$$
$$x = \frac{-(-8) \pm \sqrt{(-8)^2 - (4)(3)(5)}}{6}$$
$$x = \frac{+8 \pm \sqrt{64 - 60}}{6}$$
$$x = 1.67 \text{ or } 1$$

1-8

$a = 35°$ opposite angle
$b = 180 - 35 - 90 = 55°$
$c = 180 - 55 = 125°$

1-9

$a = 80°$ opposite angle
$b = 180 - 50 = 130°$
$c = 130°$ opposite angle

1-10

$a = 90 - 40 = 50°$
$b = 15°$ opposite angle
$c = 180 - 50 - 15 = 115°$
$d = 180 - 115 = 65°$
$e = 65°$ opposite angle

1-11

$$\frac{21}{7} = \frac{60}{5} \qquad CD = \frac{1}{2}(5) = 15 \text{ in.}$$

1-12

$$\frac{CE}{8} = \frac{12.5}{5} \qquad CE = \frac{12.5}{5}(8) = 20 \text{ m}$$

1-13

$$A = 20 \sin 38° = 12.3 \text{ mm}$$

1-14

$$\cos\theta = \frac{4}{10} \qquad \theta = 66.4°$$

1-15

$$\tan\theta = \frac{6}{A} \qquad A = 16.5 \text{ ft}$$

1-16

$$\tan 70° = \frac{y}{3} \qquad y = 11 \text{ mm}$$

1-17

$R = 5$ in. $\quad \theta = 36.9°$
$R = 13$ in. $\quad \theta = 67.4°$
$R = 17 \quad \theta = 28.1°$

1-18

$$\tan 20 = \frac{A}{6} \qquad A = 2.18 \text{ in}$$
$$\tan 40 = \frac{A}{7} \qquad A = 3.36 \text{ ft}$$
$$\tan 55 = \frac{20}{A} \qquad A = 14 \text{ m.}$$

1-19

$$\sin\theta = \frac{23}{40} \qquad \theta = 35.7°$$

1-20

$$\tan 65 = \frac{y}{4} \qquad y = 8.58 \text{ mm}$$

1-21

$$\sin\theta = \frac{11}{32} \qquad \theta = 21.3°$$

1-22

$$c^2 = 15^2 + 41^2 - 2(15)(41)\cos 120$$
$$c = 51.2 \text{ cm}$$

1-23

$$c^2 = 15^2 + 25^2 - 2(15)(25)\cos 65$$
$$c = 23.1 \text{ ft}$$

1-24

$$(5.5)^2 = 3^2 + 4^2 - 2(3)(4)\cos\theta$$
$$\theta = 77.36° \text{ (2nd quadrant)}$$
or $\theta = 102.6°$

1-25

$$(CB)^2 = 55^2 + 30^2 - 2(55)(30)\cos 25$$
$$CB = 34.2 \text{ in.}$$

1-26

$$d^2 = 6^2 + 8^2 - 2(6)(8)\cos 130$$
$$d = 12.7 \text{ m}$$

1-27

$$(CD)^2 = (2.5)^2 + (4)^2 - 2(4)(2.5)\cos 16°$$
$$CD = 0.174 \text{ m}$$

1-28

$$\frac{A}{\sin 120°} = \frac{50}{\sin 20} \qquad A = 127 \text{ lb}$$

1-29

$$\frac{AC}{\sin 73°} = \frac{400}{\sin 82} \qquad AC = 313 \text{ ft}$$
$$\frac{AD}{\sin 65} = \frac{400}{\sin 82} \qquad AD = 365 \text{ ft}$$

1-30

$$\frac{d}{\sin 40} = \frac{14}{\sin 85} \qquad d = 9.32 \text{ m}$$

1-31

$$\cos\theta = \frac{12}{25} \qquad \theta = 73°$$

1-32

$$\frac{6}{\sin 70} = \frac{x}{\sin 40}$$
$$x = 4.1 \text{ ft}$$

1-33

$$\tan\theta = \frac{1}{10} \qquad \theta = 5.7°$$
included angle $= 11.4°$

1-34

$$\cos 50 = \frac{y}{10} \qquad y = 6.43 \text{ in.}$$
$$h = 10 - 6.43 = 3.57 \text{ in.}$$

1-35

$$x = 3.3\cos 55° = 1.9 \text{ in.}$$
$$y = 3.3\sin 55° = 2.7 \text{ in.}$$

1-36

Corner width $= 1.97/\cos 30 = 2.27$ in.

Applied Mechanics For Engineering Technology 8th Edition Solution

Chao Zhang

Applied Mechanics For Engineering Technology 8th Edition Solution:

Applied Mechanics for Engineering Technology Keith M. Walker,1974 **Applied Mechanics for Engineering Technology** Keith M. Walker,2013-10-03 For courses in Applied Mechanics Statics Dynamics or Introduction to Stress Analysis Featuring a non calculus approach this introduction to applied mechanics text combines a straightforward readable foundation in underlying physics principles with a consistent method of problem solving It presents the physics principles in small elementary steps keeps the mathematics at a reasonable level provides an abundance of worked examples and features problems that are as practical as possible without becoming too involved with many extraneous details This edition features 7% more problems an enhanced layout and design and a logical disciplined approach that gives students a sound background in core statics and dynamics competencies The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed

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The Cumulative Book Index ,1978 A world list of books in the English language *The United States Catalog* ,1903

Journal of Applied Mechanics ,1977 Publishes original research in all branches of mechanics including aerodynamics aeroelasticity boundary layers computational mechanics constitutive modeling of materials dynamics elasticity flow and fracture heat transfer hydraulics impact internal flow mechanical properties of materials micromechanics plasticity stress analysis structures thermodynamics turbulence vibration and wave propagation *American Book Publishing Record* ,2003

Book Review Index ,2000 Every 3rd issue is a quarterly cumulation **Cumulative Book Index** ,1957

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Machinery and Production Engineering ,1926 *Bookseller's catalogues* Thornton J. and son,1883 **Mechanical Engineering** ,1984-06 **Forthcoming Books** Rose Arny,1999

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