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.

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