

Applied Mechanics for Engineering Technology 8th Edition Solution Manual

1-1	$24 + 6x - 12x = 6x$ $6x = 12x - 24$ $x = 2$	1-17	$R = 5 \text{ m}$ $\theta = 36.7^\circ$ $R = 13 \text{ m}$ $\theta = 42.9^\circ$ $R = 17 \text{ m}$ $\theta = 48.1^\circ$
1-2	$12 + 6x + 3 = 27$ $6x = 27 - 12 - 3$ $x = 2$	1-18	$\tan 20^\circ = \frac{y}{x}$ $y = 2.18 \text{ m}$ $\tan 40^\circ = \frac{y}{x}$ $x = 3.36 \text{ ft}$ $\tan 55^\circ = \frac{y}{x}$ $y = 1.4 \text{ m}$
1-3	$2x = \frac{3}{4}x + \frac{5}{12}x$ $\frac{9}{12}x + \frac{5}{12}x$ $\frac{14}{12}x$ $\frac{2x}{14} = \frac{x}{7}$ $x = 2.4$	1-19	$\sin \theta = \frac{y}{r}$ $\theta = 38.7^\circ$
1-4	$\begin{array}{l} \text{Q-1: } 10x + 40y = 100 \\ \text{Q-1: } -10x + 2y = -20 \end{array}$ $\begin{array}{l} 40y = 80 \\ y = 2 \end{array}$	1-20	$\tan 65^\circ = \frac{y}{x}$ $y = 6.58 \text{ mm}$
1-5	$\begin{array}{l} \text{Q-2: } 17x + 24y = 92.8 \\ \text{Q-2: } 19x - 12y = 16.8 \end{array}$ $\begin{array}{l} 25x + 0 = 7.44 \\ x = 0.296 \end{array}$	1-21	$\sin \theta = \frac{y}{r}$ $\theta = 27.3^\circ$
1-6	$x = \frac{+2 \pm \sqrt{4 - 4(2)(-2)}}{2(2)}$ $= \frac{+2 \pm \sqrt{20}}{4}$ $= 0.866 \text{ m or } -0.712$	1-22	$C^2 = 16^2 + 42^2 - 2(16)(42)\cos 120^\circ$ $C = 57.2 \text{ cm}$
1-7	$(3x)x + \frac{5}{2}(x) = 80(x)$ $3x^2 - 8x + 5 = 0$ $x = \frac{(-b) \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{8 \pm \sqrt{64 - 60}}{6}$ $x = 1.67 \text{ m or } 1$	1-23	$C^2 = 16^2 + 25^2 - 2(16)(25)\cos 65^\circ$ $C = 23.1 \text{ ft}$
1-8	$\alpha = 95^\circ$ opposite angle $b = 180 - 15 - 90 = 55^\circ$ $C = 180 - 65 = 115^\circ$	1-24	$(30)^\circ = 3^\circ + 4^\circ - 2(10)(10)\cos 10^\circ$ $\theta = 77.36^\circ$ (2nd quadrant)
1-9	$\alpha = 90^\circ$ opposite angle $b = 180 - 80 = 100^\circ$ $C = 180 - 100 = 80^\circ$	1-25	$(40)^\circ = 55^\circ + 90^\circ - 2(20)(30)\cos 25^\circ$ $CD = 80.2 \text{ m}$
1-10	$\alpha = 90^\circ - 40 = 50^\circ$ $b = 150 - 60 - 100 = 50^\circ$ $C = 180 - 100 = 80^\circ$ $\alpha = 60^\circ$ opposite angle	1-26	$d^2 = C^2 + B^2 - 2(AB)\cos 130^\circ$ $d = 12.7 \text{ m}$
1-11	$24 = \frac{60}{3} \text{ CD} = 24 \cdot 5 = 120 \text{ m}$	1-27	$(60)^\circ = (30)^\circ + 45^\circ - 2(10)(10)\cos 16^\circ$ $CD = 0.174 \text{ m}$
1-12	$\frac{60}{3} = 12.5$ $CD = 12.5 \cdot 8 = 20 \text{ m}$	1-28	$\frac{AB}{\sin 120^\circ} = \frac{60}{\sin 20^\circ}$ $A = 12.7 \text{ m}$
1-13	$A = 20 \sin 30^\circ = 12.3 \text{ m}$	1-29	$\frac{AC}{\sin 75^\circ} = \frac{60}{\sin 62^\circ}$ $AC = 31.3 \text{ ft}$ $\frac{AD}{\sin 25^\circ} = \frac{60}{\sin 48^\circ}$ $AD = 86.5 \text{ ft}$
1-14	$\cos \theta = \frac{b}{c}$ $\theta = 66.4^\circ$	1-30	$\frac{d}{\sin 60^\circ} = \frac{10}{\sin 25^\circ}$ $d = 3.32 \text{ m}$
1-15	$\tan \theta = \frac{y}{x}$ $\theta = 16.56^\circ$	1-31	$\cos \theta = \frac{b}{c}$ $\theta = 73^\circ$
1-16	$\tan 70^\circ = \frac{y}{x}$ $y = 11.99 \text{ m}$	1-32	$\frac{b}{\sin 120^\circ} = \frac{x}{\sin 60^\circ}$ $x = 4.1 \text{ ft}$
		1-33	$\tan \theta = \frac{y}{x}$ $\theta = 5.1^\circ$ included angle = 16.4°
		1-34	$\cos 60^\circ = \frac{y}{x}$ $y = 6.43 \text{ m}$ $A = 10 - 6.43 = 3.57 \text{ m}$
		1-35	$x = 3.3 \cos 55^\circ = 1.9 \text{ m}$ $y = 3.3 \sin 55^\circ = 2.7 \text{ m}$
		1-36	corner width = $\frac{1.975}{\tan 22.5^\circ} = 2.17 \text{ m}$

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S Marginson

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