

Applied Mechanics for Engineering Technology 8th Edition

Solution Manual

1-1	$24 + 8x - 12x = 8x$ $8x - 12x - 8x = -24$ $x = 2$	1-17	$R = 5 \text{ m}$ $\theta = 36.9^\circ$ $R = 13 \text{ m}$ $\theta = 47.9^\circ$ $R = 17$ $\theta = 28.1^\circ$
1-2	$12 + 6x + 3 = 27$ $6x = 27 - 12 - 3$ $x = 2$	1-18	$\tan 20 = \frac{A}{2}$ $A = 2.18 \text{ m}$ $\tan 40 = \frac{A}{7}$ $A = 3.36 \text{ ft}$ $\tan 55 = \frac{20}{A}$ $A = 17 \text{ m}$
1-3	$28 = \frac{5}{4}x + \frac{5}{12}x$ $= \frac{5}{12}x + \frac{5}{12}x$ $= \frac{10}{12}x$ $28 \times \frac{3}{10} = x$ $x = 24$	1-19	$\sin \theta = \frac{25}{40}$ $\theta = 38.7^\circ$
1-4	$\textcircled{1} \times 5$ $10x + 40y = 100$ $\textcircled{2} \times -2$ $-12x + 6y = -20$ $42y = 80$ $y = 1.74$	1-20	$\tan 65 = \frac{y}{4}$ $y = 8.58 \text{ mm}$
1-5	$\textcircled{1} \times 8$ $176x + 24y = 968$ $\textcircled{2} \times 3$ $19x - 24y = 144$ $255x + 0 = 1112$ $x = 5.28$	1-21	$\sin \theta = \frac{33}{72}$ $\theta = 27.3^\circ$
1-6	$x = \frac{+25 \pm \sqrt{(-4)^2 - (4)(1)(-20)}}{2(1)}$ $= \frac{+25 \pm 28.5}{2}$ $= 0.865 \text{ m} = 0.712$	1-22	$c^2 = 15^2 + 42^2 - 2(15)(42)\cos 120$ $c = 51.2 \text{ cm}$
1-7	$(3x)x + \frac{5}{2}(x) = 8(x)$ $1x^2 - 8x + 5 = 0$ $x = \frac{-(-8) \pm \sqrt{(-8)^2 - (4)(1)(5)}}{2(1)}$ $x = \frac{+8 \pm \sqrt{64 - 20}}{2}$ $x = 1.67 \text{ m}$	1-23	$c^2 = 15^2 + 25^2 - 2(15)(25)\cos 65$ $c = 23.1 \text{ ft}$
1-8	$a = 35^\circ$ opposite angle $b = 180 - 35 - 90 = 55^\circ$ $c = 180 - 55 - 125 = 125^\circ$	1-24	$(5)^2 = 3^2 + 4^2 - 2(3)(4)\cos \theta$ $\theta = 77.36^\circ$ (2nd quadrant) or $\theta = 102.6^\circ$
1-9	$a = 80^\circ$ opposite angle $b = 180 - 80 = 100^\circ$ $c = 100^\circ$ opposite angle	1-25	$(60)^2 = 55^2 + 30^2 - 2(55)(30)\cos 25$ $CB = 46.2 \text{ m}$
1-10	$a = 30 - 40 = 50^\circ$ $b = 15^\circ$ opposite angle $c = 180 - 50 - 15 = 115^\circ$ $d = 180 - 115 = 65^\circ$ $e = 65^\circ$ opposite angle	1-26	$d^2 = c^2 + b^2 - 2cb\cos 130$ $d = 12.7 \text{ m}$
1-11	$\frac{21}{7} = \frac{20}{5}$ $CD = \frac{21}{5} \times 5 = 15 \text{ m}$	1-27	$(60)^2 = (20)^2 + (4)^2 - 2(20)(4)\cos 16^\circ$ $CD = 0.174 \text{ m}$
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	$\frac{AC}{\sin 73} = \frac{640}{\sin 42}$ $AC = 913 \text{ ft}$ $\frac{AD}{\sin 65} = \frac{640}{\sin 42}$ $AD = 865 \text{ ft}$
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	$\frac{6}{\sin 70} = \frac{x}{\sin 40}$ $x = 4.1 \text{ ft}$ 
1-17		1-33	$\tan \theta = \frac{1}{10}$ $\theta = 5.7^\circ$ included angle = 114°
1-18		1-34	$\cos 50 = \frac{y}{10}$ $y = 6.43 \text{ m}$ $h = 10 - 6.43 = 3.57 \text{ m}$
1-19		1-35	$x = 3.3 \cos 55 = 1.9 \text{ m}$ $y = 3.3 \sin 55 = 2.7 \text{ m}$
1-20		1-36	corner width = $1.875 / \cos 30 = 2.17 \text{ m}$

Applied Reliability Engineering Solutions Manual

Jiyuan Zhang



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