

Applied Mechanics for Engineering Technology 8th Edition Solution Manual

<p>1-1 $2x + 5x - 12x = 8x$ $8x - 12x - 8x = -24$ $x = 2$</p>	<p>1-17 $R = 5 \text{ m}$ $\theta = 36.9^\circ$ $R = 13 \text{ m}$ $\theta = 47.9^\circ$ $R = 17$ $\theta = 28.1^\circ$</p>
<p>1-2 $12 + 6x + 3 = 27$ $6x = 27 - 12 - 3$ $x = 2$</p>	<p>1-18 $\tan 20^\circ = \frac{A}{6}$ $A = 2.18 \text{ m}$ $\tan 40^\circ = \frac{A}{4}$ $A = 3.36 \text{ Ft}$ $\tan 55^\circ = \frac{20}{A}$ $A = 14 \text{ m}$</p>
<p>1-3 $28 = \frac{3}{4}x + \frac{5}{12}x$ $= \frac{9}{12}x + \frac{5}{12}x$ $= \frac{14}{12}x$ $28 \times \frac{12}{14} = x$ $x = 24$</p>	<p>1-19 $\sin \theta = \frac{25}{40}$ $\theta = 38.7^\circ$</p>
<p>1-4 $\textcircled{1} \times 5$ $10x + 40y = 100$ $\textcircled{2} \times -3$ $-12x + 6y = -20$ <hr style="width: 100%;"/>$42y = 80$ $y = 1.74$</p>	<p>1-20 $\tan 65^\circ = \frac{y}{4}$ $y = 8.58 \text{ mm}$</p>
<p>1-5 $\textcircled{1} \times 8$ $176x + 24y = 968$ $\textcircled{2} \times 3$ $19x - 24y = 168$ <hr style="width: 100%;"/>$255x + 0 = 1136$ $x = 5.28$</p>	<p>1-21 $\sin \theta = \frac{33}{72}$ $\theta = 27.3^\circ$</p>
<p>1-6 $x = \frac{+25 \pm \sqrt{(-4)^2 - 4(1)(-20)}}{2(1)}$ $= \frac{+25 \pm 28.2}{2}$ $= 0.865 \text{ m or } 12$</p>	<p>1-22 $c^2 = 15^2 + 42^2 - 2(15)(42)\cos 120^\circ$ $c = 51.2 \text{ cm}$</p>
<p>1-7 $(3x)x + \frac{5}{2}(x) = 80(x)$ $3x^2 - 8x + 5 = 0$ $x = \frac{-(-8) \pm \sqrt{(-8)^2 - 4(3)(5)}}{2(3)}$ $x = \frac{+8 \pm \sqrt{64 - 60}}{6}$ $x = 1.67 \text{ or } 1$</p>	<p>1-23 $c^2 = 15^2 + 25^2 - 2(15)(25)\cos 65^\circ$ $c = 23.1 \text{ Ft}$</p>
<p>1-8 $a = 35^\circ$ opposite angle $b = 180 - 35 - 90 = 55^\circ$ $c = 180 - 55 - 125 = 125^\circ$</p>	<p>1-24 $(55)^2 = 3^2 + 4^2 - 2(3)(4)\cos \theta$ $\theta = 77.36^\circ$ (2nd quadrant) $\theta = 102.6^\circ$</p>
<p>1-9 $a = 80^\circ$ opposite angle $b = 180 - 80 = 100^\circ$ $c = 100^\circ$ opposite angle</p>	<p>1-25 $(60)^2 = 55^2 + 30^2 - 2(55)(30)\cos 25^\circ$ $CB = 42.2 \text{ m}$</p>
<p>1-10 $a = 90 - 40 = 50^\circ$ $b = 15^\circ$ opposite angle $c = 180 - 50 - 15 = 115^\circ$ $d = 180 - 115 = 65^\circ$ $e = 65^\circ$ opposite angle</p>	<p>1-26 $d^2 = c^2 + b^2 - 2c(b)\cos 130^\circ$ $d = 12.7 \text{ m}$</p>
<p>1-11 $\frac{21}{7} = \frac{80}{5}$ $CD = \frac{21}{5} \times 5 = 15 \text{ m}$</p>	<p>1-27 $(60)^2 = (20)^2 + (4)^2 - 2(20)(4)\cos 16^\circ$ $CD = 0.174 \text{ m}$</p>
<p>1-12 $\frac{CE}{5} = \frac{12.5}{5}$ $CE = 12.5 \times 8 = 20 \text{ m}$</p>	<p>1-28 $\frac{A}{\sin 20^\circ} = \frac{50}{\sin 20^\circ}$ $A = 127 \text{ m}$</p>
<p>1-13 $A = 20 \text{ m}$ $\sin 38^\circ = 12.3 \text{ m}$</p>	<p>1-29 $\frac{BC}{\sin 73^\circ} = \frac{640}{\sin 92^\circ}$ $AC = 913 \text{ Ft}$ $\frac{AD}{\sin 65^\circ} = \frac{640}{\sin 92^\circ}$ $AD = 865 \text{ Ft}$</p>
<p>1-14 $\cos 3\theta = \frac{4}{10}$ $\theta = 66.4^\circ$</p>	<p>1-30 $\frac{d}{\sin 60^\circ} = \frac{18}{\sin 85^\circ}$ $d = 0.32 \text{ m}$</p>
<p>1-15 $\tan \theta = \frac{4}{A}$ $A = 16.5 \text{ Ft}$</p>	<p>1-31 $\cos \theta = \frac{12}{25}$ $\theta = 73^\circ$</p>
<p>1-16 $\tan 70^\circ = \frac{y}{2}$ $y = 11 \text{ m}$</p>	<p>1-32 $\frac{6}{\sin 70^\circ} = \frac{x}{\sin 40^\circ}$ $x = 4.1 \text{ Ft}$</p>
	
	<p>1-33 $\tan \theta = \frac{7}{10}$ $\theta = 34.7^\circ$ included angle = 114°</p>
	<p>1-34 $\cos 50^\circ = \frac{y}{10}$ $y = 6.43 \text{ m}$ $h = 10 - 6.43 = 3.57 \text{ m}$</p>
	<p>1-35 $x = 3.3 \cos 55^\circ = 1.9 \text{ m}$ $y = 3.3 \sin 55^\circ = 2.7 \text{ m}$</p>
	<p>1-36 corner width = $1375 \cos 120^\circ = 2.17 \text{ m}$</p>

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Xiang Xie



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