

# Applied Mechanics for Engineering Technology 8th Edition Solution Manual

<p>1-1 <math>2x + 5x - 12x = 8x</math> <math>8x - 12x - 8x = -24</math> <math>x = 2</math></p>	<p>1-17 <math>R = 5 \text{ m}</math> <math>\theta = 36.9^\circ</math> <math>R = 13 \text{ m}</math> <math>\theta = 47.9^\circ</math> <math>R = 17</math> <math>\theta = 28.1^\circ</math></p>
<p>1-2 <math>12 + 6x + 3 = 27</math> <math>6x = 27 - 12 - 3</math> <math>x = 2</math></p>	<p>1-18 <math>\tan 20^\circ = \frac{A}{6}</math> <math>A = 2.18 \text{ m}</math> <math>\tan 40^\circ = \frac{A}{4}</math> <math>A = 3.36 \text{ ft}</math> <math>\tan 55^\circ = \frac{20}{A}</math> <math>A = 14 \text{ m}</math></p>
<p>1-3 <math>28 = \frac{3}{4}x + \frac{5}{12}x</math> <math>= \frac{9}{12}x + \frac{5}{12}x</math> <math>= \frac{14}{12}x</math> <math>28 \times \frac{12}{14} = x</math> <math>x = 24</math></p>	<p>1-19 <math>\sin \theta = \frac{25}{40}</math> <math>\theta = 38.7^\circ</math></p>
<p>1-4 <math>\textcircled{1} \times 5</math> <math>10x + 40y = 100</math> <math>\textcircled{2} \times -3</math> <math>-12x + 6y = -20</math> <hr style="width: 100%;"/><math>42y = 80</math> <math>y = 1.74</math></p>	<p>1-20 <math>\tan 65^\circ = \frac{y}{4}</math> <math>y = 8.58 \text{ mm}</math></p>
<p>1-5 <math>\textcircled{1} \times 8</math> <math>176x + 24y = 968</math> <math>\textcircled{2} \times 3</math> <math>19x - 24y = 168</math> <hr style="width: 100%;"/><math>255x + 0 = 1136</math> <math>x = 5.28</math></p>	<p>1-21 <math>\sin \theta = \frac{33}{72}</math> <math>\theta = 27.3^\circ</math></p>
<p>1-6 <math>x = \frac{+25 \pm \sqrt{(-4)^2 - 4(1)(-20)}}{2(1)}</math> <math>= \frac{+25 \pm 28.2}{2}</math> <math>= 0.865 \text{ m or } 12</math></p>	<p>1-22 <math>c^2 = 15^2 + 42^2 - 2(15)(42)\cos 120^\circ</math> <math>c = 51.2 \text{ cm}</math></p>
<p>1-7 <math>(3x)x + \frac{5}{2}(x) = 80(x)</math> <math>3x^2 - 8x + 5 = 0</math> <math>x = \frac{-(-8) \pm \sqrt{(-8)^2 - 4(3)(5)}}{2(3)}</math> <math>x = \frac{+8 \pm \sqrt{64 - 60}}{6}</math> <math>x = 1.67 \text{ or } 1</math></p>	<p>1-23 <math>c^2 = 15^2 + 25^2 - 2(15)(25)\cos 65^\circ</math> <math>c = 23.1 \text{ ft}</math></p>
<p>1-8 <math>a = 35^\circ</math> opposite angle <math>b = 180 - 35 - 90 = 55^\circ</math> <math>c = 180 - 55 - 125 = 125^\circ</math></p>	<p>1-24 <math>(55)^2 = 3^2 + 4^2 - 2(3)(4)\cos \theta</math> <math>\theta = 77.36^\circ</math> (<math>2^{\text{nd}}</math> quadrant) <math>\theta = 102.6^\circ</math></p>
<p>1-9 <math>a = 80^\circ</math> opposite angle <math>b = 180 - 80 = 100^\circ</math> <math>c = 100^\circ</math> opposite angle</p>	<p>1-25 <math>(60)^2 = 55^2 + 30^2 - 2(55)(30)\cos 25^\circ</math> <math>CB = 46.2 \text{ m}</math></p>
<p>1-10 <math>a = 90 - 40 = 50^\circ</math> <math>b = 15^\circ</math> opposite angle <math>c = 180 - 50 - 15 = 115^\circ</math> <math>d = 180 - 115 = 65^\circ</math> <math>e = 65^\circ</math> opposite angle</p>	<p>1-26 <math>d^2 = c^2 + b^2 - 2c(b)\cos 130^\circ</math> <math>d = 12.7 \text{ m}</math></p>
<p>1-11 <math>\frac{21}{7} = \frac{80}{5}</math> <math>CD = \frac{21}{5} \times 5 = 15 \text{ m}</math></p>	<p>1-27 <math>(60)^2 = (20)^2 + (4)^2 - 2(20)(4)\cos 16^\circ</math> <math>CD = 0.174 \text{ m}</math></p>
<p>1-12 <math>\frac{CE}{5} = \frac{12.5}{5}</math> <math>CE = 12.5 \times 8 = 20 \text{ m}</math></p>	<p>1-28 <math>\frac{A}{\sin 20^\circ} = \frac{50}{\sin 20^\circ}</math> <math>A = 127 \text{ m}</math></p>
<p>1-13 <math>A = 20 \text{ m}</math> <math>38^\circ = 12.3 \text{ m}</math></p>	<p>1-29 <math>\frac{BC}{\sin 73^\circ} = \frac{640}{\sin 92^\circ}</math> <math>AC = 913 \text{ ft}</math> <math>\frac{AD}{\sin 65^\circ} = \frac{640}{\sin 92^\circ}</math> <math>AD = 865 \text{ ft}</math></p>
<p>1-14 <math>\cos 3\theta = \frac{4}{10}</math> <math>\theta = 66.4^\circ</math></p>	<p>1-30 <math>\frac{d}{\sin 60^\circ} = \frac{18}{\sin 85^\circ}</math> <math>d = 0.32 \text{ m}</math></p>
<p>1-15 <math>\tan \theta = \frac{4}{A}</math> <math>A = 16.5 \text{ ft}</math></p>	<p>1-31 <math>\cos \theta = \frac{12}{25}</math> <math>\theta = 73^\circ</math></p>
<p>1-16 <math>\tan 70^\circ = \frac{y}{2}</math> <math>y = 11 \text{ m}</math></p>	<p>1-32 <math>\frac{6}{\sin 70^\circ} = \frac{x}{\sin 40^\circ}</math> <math>x = 4.1 \text{ ft}</math></p>
	
	<p>1-33 <math>\tan \theta = \frac{7}{10}</math> <math>\theta = 34.7^\circ</math> included angle = <math>114^\circ</math></p>
	<p>1-34 <math>\cos 50^\circ = \frac{y}{10}</math> <math>y = 6.43 \text{ m}</math> <math>h = 10 - 6.43 = 3.57 \text{ m}</math></p>
	<p>1-35 <math>x = 3.3 \cos 55^\circ = 1.9 \text{ m}</math> <math>y = 3.3 \sin 55^\circ = 2.7 \text{ m}</math></p>
	<p>1-36 corner width = <math>1375 \cos 120^\circ = 2.17 \text{ m}</math></p>

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**Andrew Jamieson**



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