

# 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 = \frac{A}{6}</math> <math>A = 2.18 \text{ m}</math> <math>\tan 40 = \frac{A}{4}</math> <math>A = 3.36 \text{ Ft}</math> <math>\tan 55 = \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 = \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 = 144</math> <hr style="width: 100%;"/><math>255x + 0 = 1112</math> <math>x = 5.28</math></p>	<p>1-21 <math>\sin \theta = \frac{13}{22}</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</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</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> (2<sup>nd</sup> 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</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</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} = \frac{50}{\sin 20}</math> <math>A = 127 \text{ m}</math></p>
<p>1-13 <math>A = 20 \text{ m}</math> <math>38 = 12.3 \text{ m}</math></p>	<p>1-29 <math>\frac{BC}{\sin 73} = \frac{640}{\sin 92}</math> <math>AC = 913 \text{ Ft}</math> <math>\frac{AD}{\sin 65} = \frac{640}{\sin 92}</math> <math>AD = 865 \text{ Ft}</math></p>
<p>1-14 <math>\cos \theta = \frac{4}{10}</math> <math>\theta = 66.4^\circ</math></p>	<p>1-30 <math>\frac{d}{\sin 60} = \frac{18}{\sin 85}</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 = \frac{y}{2}</math> <math>y = 11 \text{ m}</math></p>	<p>1-32 <math>\frac{c}{\sin 70} = \frac{x}{\sin 40}</math> <math>x = 4.1 \text{ Ft}</math></p>
	
	<p>1-33 <math>\tan \theta = \frac{1}{10}</math> <math>\theta = 5.7^\circ</math> included angle = <math>114^\circ</math></p>
	<p>1-34 <math>\cos 50 = \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 = 1.9 \text{ m}</math> <math>y = 3.3 \sin 55 = 2.7 \text{ m}</math></p>
	<p>1-36 corner width = <math>1.375 \sqrt{2} = 2.17 \text{ m}</math></p>

# Applied Mechanics For Engineering Technology Solution Manual

**Arthur Morley, William Inchley**



**Applied Mechanics For Engineering Technology Solution Manual:**

## Whispering the Strategies of Language: An Mental Journey through **Applied Mechanics For Engineering Technology Solution Manual**

In a digitally-driven world where monitors reign supreme and instant communication drowns out the subtleties of language, the profound secrets and emotional nuances concealed within words often get unheard. Yet, set within the pages of **Applied Mechanics For Engineering Technology Solution Manual** a charming literary prize pulsing with organic thoughts, lies an extraordinary quest waiting to be undertaken. Composed by an experienced wordsmith, that wonderful opus attracts visitors on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the psychological depths of the moving evaluation, we will embark upon a sincere exploration of the book is key styles, dissect their charming writing model, and fail to the strong resonance it evokes heavy within the recesses of readers hearts.

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