

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 $\tan 20 = \frac{A}{6}$ $A = 2.18 \text{ m}$ $\tan 40 = \frac{A}{4}$ $A = 3.36 \text{ Ft}$ $\tan 55 = \frac{20}{A}$ $A = 14 \text{ m}$</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 $\tan 65 = \frac{y}{4}$ $y = 8.58 \text{ mm}$</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 $c^2 = 15^2 + 42^2 - 2(15)(42)\cos 120$ $c = 51.2 \text{ cm}$</p>
<p>1-7 $(3x)x + \frac{5}{2}(x) = 80(x)$ $1x^2 - 8x + 5 = 0$ $x = \frac{-(-8) \pm \sqrt{(-8)^2 - 4(1)(5)}}{2(1)}$ $x = \frac{+8 \pm \sqrt{64 - 20}}{2}$ $x = 1.67 \text{ or } 1$</p>	<p>1-23 $c^2 = 15^2 + 25^2 - 2(15)(25)\cos 65$ $c = 23.1 \text{ Ft}$</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 $(60)^2 = 55^2 + 30^2 - 2(55)(30)\cos 25$ $CB = 46.2 \text{ m}$</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 $d^2 = c^2 + b^2 - 2c(b)\cos 130$ $d = 12.7 \text{ m}$</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 $\frac{A}{\sin 20} = \frac{50}{\sin 20}$ $A = 127 \text{ m}$</p>
<p>1-13 $A = 20 \text{ m} \sin 38 = 12.3 \text{ m}$</p>	<p>1-29 $\frac{BC}{\sin 73} = \frac{640}{\sin 92}$ $AC = 313 \text{ Ft}$ $\frac{AD}{\sin 65} = \frac{640}{\sin 92}$ $AD = 665 \text{ Ft}$</p>
<p>1-14 $\cos 3\theta = \frac{4}{10}$ $\theta = 66.4^\circ$</p>	<p>1-30 $\frac{d}{\sin 60} = \frac{18}{\sin 85}$ $d = 0.32 \text{ m}$</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 $\tan 70 = \frac{y}{2}$ $y = 11 \text{ m}$</p>	<p>1-32 $\frac{6}{\sin 70} = \frac{x}{\sin 40}$ $x = 4.1 \text{ Ft}$</p> 
<p>1-17 $\tan \theta = \frac{4}{10}$ $\theta = 5.1^\circ$ included angle = 114°</p>	<p>1-33 $\tan 50 = \frac{y}{10}$ $y = 6.73 \text{ m}$ $h = 10 - 6.73 = 3.27 \text{ m}$</p>
<p>1-18 $x = 3.3 \cos 55 = 1.9 \text{ m}$ $y = 3.3 \sin 55 = 2.7 \text{ m}$</p>	<p>1-34 corner width = $1.375 \sqrt{2} = 2.17 \text{ m}$</p>

Applied Engineering Mechanics

JS Bruner



Applied Engineering Mechanics:

Reviewing **Applied Engineering Mechanics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Applied Engineering Mechanics**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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