

19

$\tan 40 = \frac{13}{x}$        $\frac{13}{\tan 40} = 15.5$

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20

$\tan 65 = \frac{x}{9}$   
 $9 \tan 65 = 19.3$

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21

$\tan 38 = \frac{11}{x}$   
 $\frac{11}{\tan 38} = 14.1$

$x = 14$

$A = \frac{1}{2}bh$   
 $A = \frac{14 \times 11}{2}$   
 $77 \text{ sq units}$

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$A = \frac{1}{2}bh$   
 $\frac{16 \times 11.2}{2}$   
 $89.6$

$\tan 55 = \frac{16}{x}$   
 $\frac{16}{\tan 55} = 11.2$

$x = 11.2$

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24

$\tan 44 = \frac{x}{29}$   
 $29 \tan 44 = 28.3$

$\cos 44 = \frac{29}{y}$   
 $\frac{29}{\cos 44} = 40.3$

$29 + 40.3 + 28.3$   
 $P = 97.3$

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25

$\sin 31 = \frac{6}{H}$   
 $\frac{6}{\sin 31} = 11.6$

$\cos 31 = \frac{A}{11.6}$   
 $11.6 \cos 31 = 9.9$

$6 + 11.6 + 9.9 = 27.5$

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26 SohCahToT

$\tan 68 = \frac{15}{A}$   
 $\frac{15}{\tan 68} = 6.1$   
 $P = 15 + 16.2 + 6.1 = 37.3$

$\sin 68 = \frac{15}{H}$   
 $\frac{15}{\sin 68} = 16.2$

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27

$\tan 42 = \frac{z}{60}$   
 $60 \tan 42 = y = 60$   
 $z = 54$

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Soh

$\sin 30 = \frac{y}{150}$   
 $150 \sin 30 = 75$   
 $\tan 40 = \frac{75}{z}$   
 $\frac{75}{\tan 40} = 89.4$

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$\tan 45 = \frac{y}{82}$   
 $82 \tan 45 = y$   
 $82 = y$   
 $\tan 28 = \frac{82}{z}$   
 $\frac{82}{\tan 28} = 154.4$

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19

$\sin 42 = \frac{2}{x}$   
 $\frac{2}{\sin 42} \approx 3$

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20

$\sin 53 = \frac{11}{x}$   
 $\frac{11}{\sin 53} = 13.8$

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21

$\cos 39 = \frac{x}{26}$   
 $26 \cos 39 = 20.2$

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$\cos^{-1} \frac{7}{14}$

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#30 p 491

$\cos^{-1} \frac{10}{15} = m\angle A$   
 $48.2$   
 $90 - 48.2 = 41.8$   
 OR  
 $\sin^{-1} \frac{10}{15} = m\angle B$   
 $m\angle B = 41.8^\circ$

$\sqrt{15^2 - 10^2} = 11.1$

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Chapter Test p 492 1-15

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