Algebra II

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2)	$\angle A = 74.2°$ $a = 11.7$ $b = 3.32$	16)	$\angle A = 4°50'$ $c = 0.622$ $a = 0.0524$	4)	7.76 Ft
4)	$\angle B = 7.9°$ $a = 1770$ $c = 1790$	18)	$\angle A = \angle B = 36.9°$ $\angle C = \angle D = 143.1°$	5)	545 Ft
6)	$\angle B = 66.0°$ $b = 11.8$ $c = 12.9$			6)	48,900 m
8)	$c = 59.5$ $\angle A = 61.9°$ $\angle B = 28.1°$		Word Problems	7)	317 Ft
10)	$a = 42.3$ $\angle A = 84.7°$ $\angle B = 5.3°$	1)	31.7°	8)	193 m × 304 m
12)	$\angle B = 51°20'$ $b = 33.2$ $a = 26.6$	2)	53.1°	9)	23.4°
14)	$\angle A = 22°40'$ $b = 1080$ $c = 1170$	3)	64.1°	10)	294 cm

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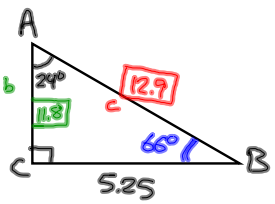
6) $\angle A = 24°$

$a = 5.25$



$\left(\tan 24° = \frac{5.25}{b}\right) b$

$b \cdot \tan 24° = 5.25$

$b = \frac{5.25}{\tan 24°}$

$b = 11.8$

$\sin 24° = \frac{5.25}{c}$

$c \cdot \sin 24° = 5.25$

$c = \frac{5.25}{\sin 24°}$

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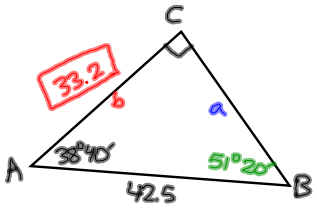
12) $\angle A = 38°40'$

$c = 42.5$



$\cos(38.6\overline{7}) = \frac{b}{42.5}$

$33.186 = b$

$\sin(38.6\overline{7}) = \frac{a}{42.5}$

$26.6 = a$

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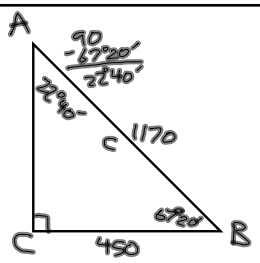
14) $\angle B = 67°20'$

$a = 450$



$\cos 67°20' = \frac{450}{c}$

$c \cdot \cos(67.\overline{3}°) = 450$

$c = \frac{450}{\cos(67.\overline{3}°)}$

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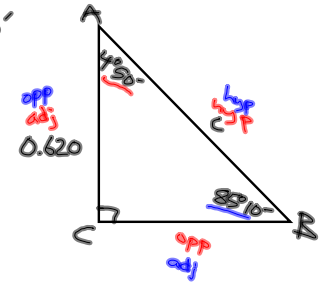
16) $\angle B = 85°10'$

$b = .620$



$\sin(85.1\overline{6}) = \frac{.62}{c}$

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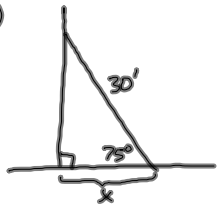
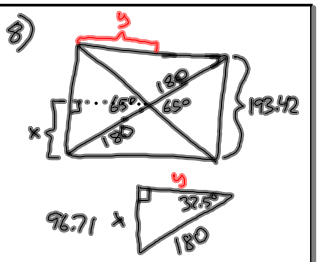
4)



$\cos 75° = \frac{x}{30}$

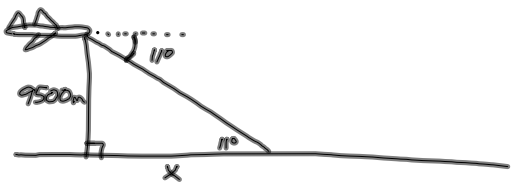
8)



$\sin 32.5 = \frac{x}{180}$

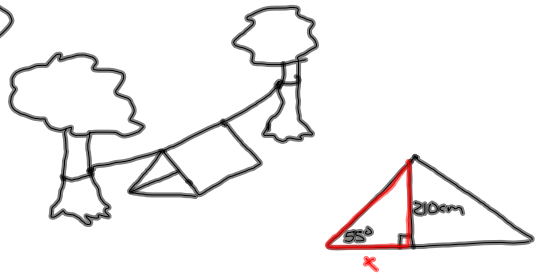
$\cos 32.5 = \frac{y}{180}$

4)



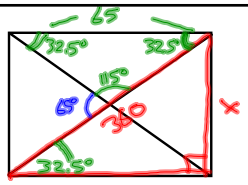
$\tan 11° = \frac{9500}{x}$

10)



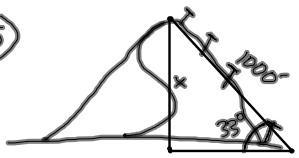
$\tan 55° = \frac{210}{x}$

8)



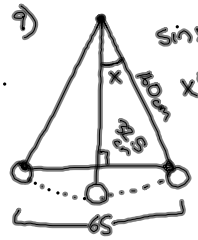
$\sin(32.5°) = \frac{x}{360}$

5)



$\sin 35° = \frac{x}{1000}$

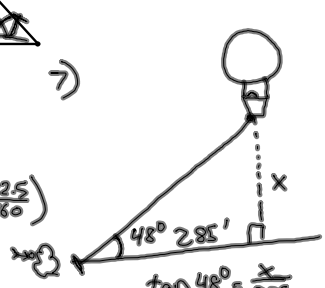
9)



$\sin x° = \frac{32.5}{160}$

$x° = \sin^{-1}\left(\frac{32.5}{160}\right)$

7)



$\tan 48° = \frac{x}{285}$