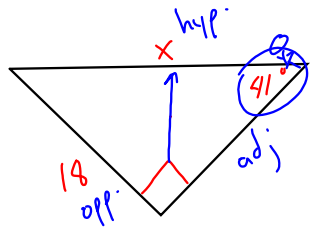
SOH CAH TOA

#16

$\sin 41 = \frac{opp}{hyp} \quad \frac{18}{x}$



$\sin 41 = \frac{18}{x}$

$x = \frac{18}{\sin 41} =$

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$\tan \theta = 1.782$

or $\frac{\tan \theta}{\tan} = \frac{1.782}{\tan}$

$\theta = \frac{1.782}{\tan}$

OR $\theta = \tan^{-1} 1.782$

$= 60.7°$

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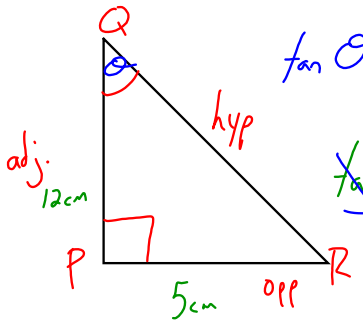
$\tan \theta = 6.895$

$\theta = \tan^{-1}(6.895)$

$= 81.7$

Jan 6-1:08 PM



$\tan \theta = \frac{opp}{adj.} \quad \frac{5}{12}$

$\tan \theta = 0.41$ $\tan^{-1}$

$\theta = 22.3$

OR

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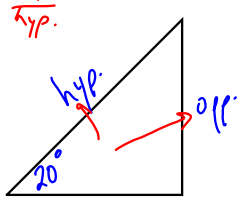
$\sin 20 = 0.342$

$\frac{opp}{hyp.}$



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opp

hyp

adj.

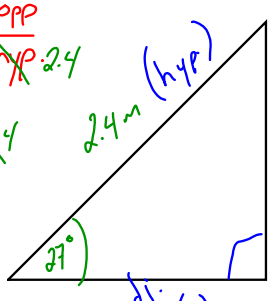
$\sin 27 = \frac{opp}{hyp} \quad \frac{x}{2.4}$

$\times 2.4$

$\sin 27 = \frac{x}{2.4} \times 2.4$

$1.08 = x$

m



$x = 1.08$ m

$\cos 27 = \frac{adj}{hyp} \quad 2.4$

$\times 2.4$

$\cos 27 = \frac{adj.}{2.4} \times 2.4$

$y = 2.14$ m

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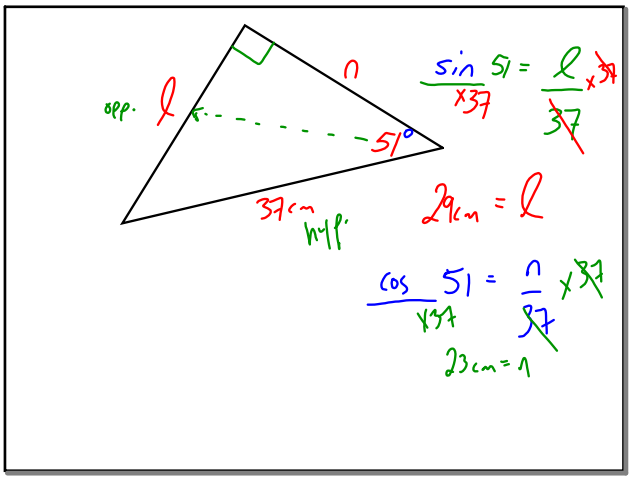
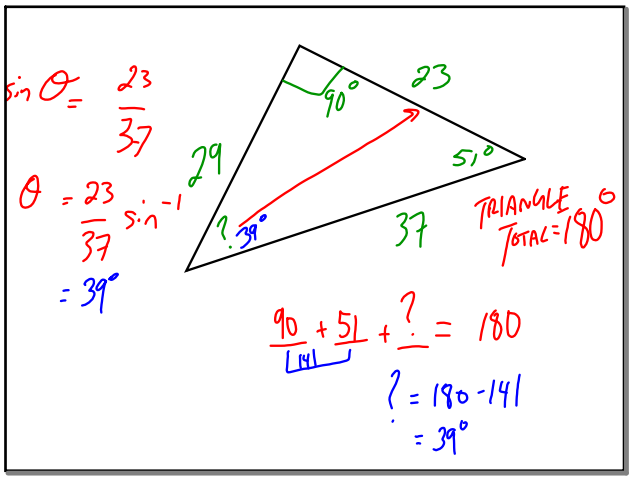
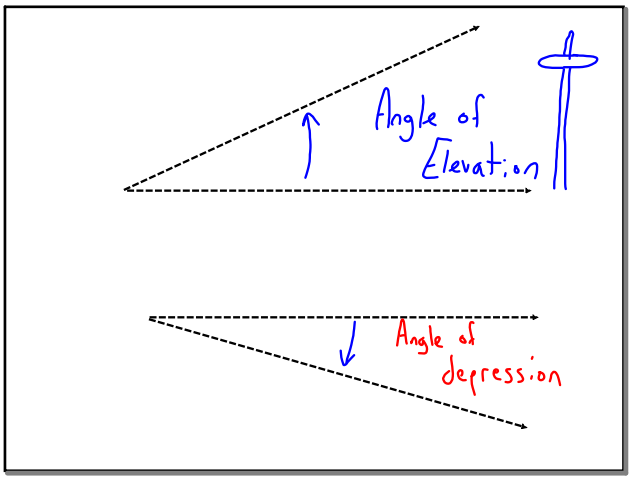


Jan 6-2:01 PM



Jan 6-2:06 PM



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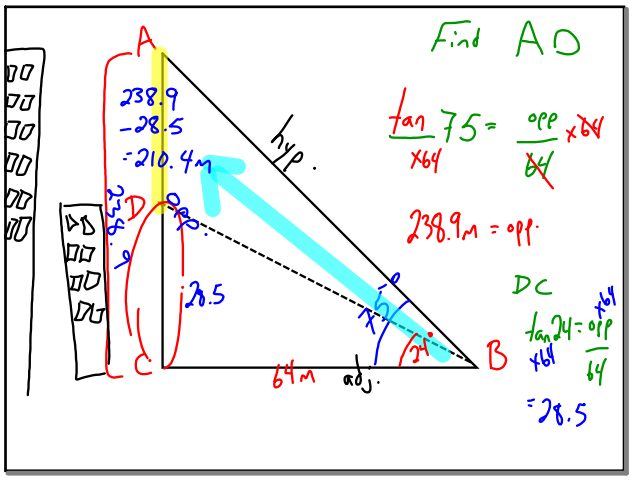

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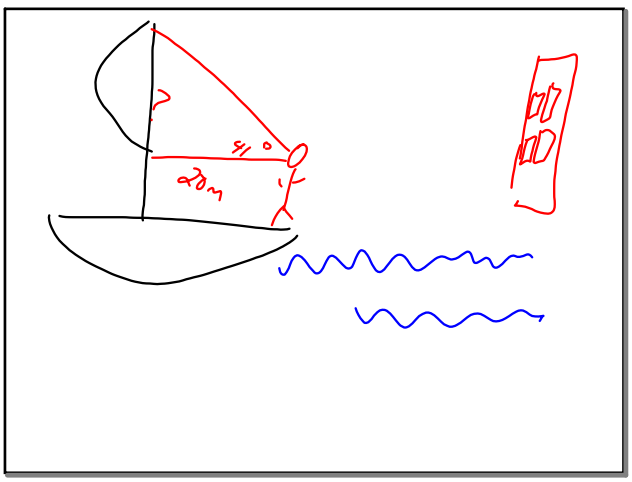

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7.4 #1, 2, 6, 7, 8

7.5 (Back side): 1, 6

p. 118 # 3a, 4ab, 8, 9

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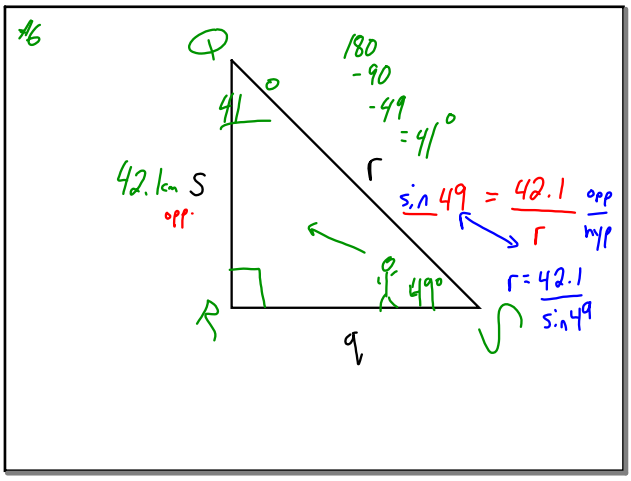
#6
Q
180
-90
-49
=41°
41°
42.1cm S
opp.
r
sin 49 = 42.1 / r
opp / hyp
49°
r = 42.1 / sin 49
R
q
S

Jan 6-2:42 PM