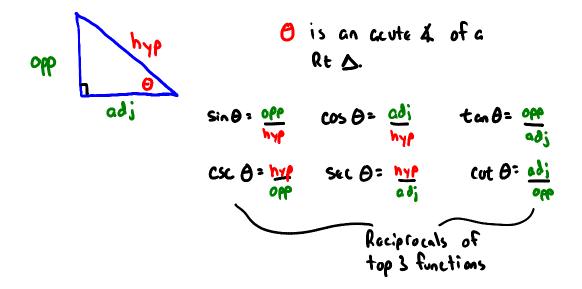
4.3 Right Triangle Trig Monday, March 16, 2015 10:53 AM

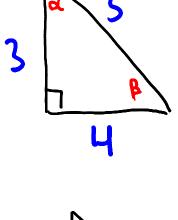


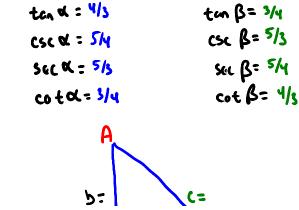
\* IT not stated, the side lengths you should round to the hundredths and the & mensure round to the tenths.



Sina = 45

cos & : 3/5

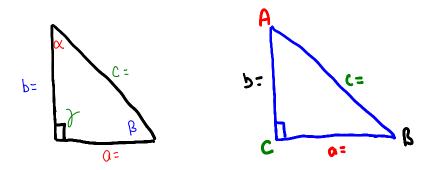




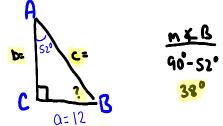
sin B = 35

cos B= 415

3rd Pd PreCal Hnrs S15 Page 1



Ex.2 Solve the right  $\triangle ABC$  when:  $M \not\equiv A = 52^{\circ}$ ,  $\overline{CB} = 12$ and  $\not\equiv C$  is the right angle.

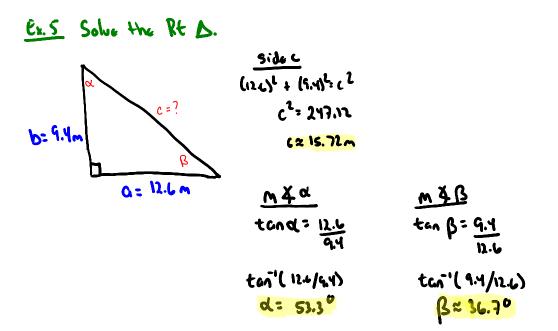


\* You must make sure you are in the correct mode!

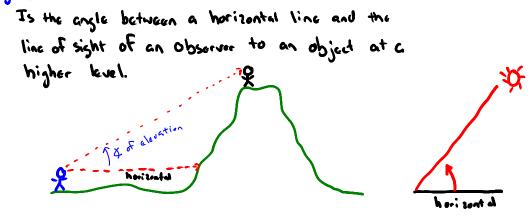
	<u>Side c</u>		side b
* Use the info given to solve!	sin 52*= <u>12</u> c		tan 52°= 12 b
	c sin 52° = 12 c= 12	<mark>ر ۳ رج.1</mark> 3	b = <u>12</u> tensio
	C= <u>12</u> Sin 52°	-	6= 9.33

Ex.4 Solve for  $a_1c_1$  and  $m \notin B$  if  $m \notin A$  is 34° and b = &l in  $C \xrightarrow{a=?}{B} \qquad \underbrace{m \notin B}_{Go^{\circ}-34} = Sb^{\circ}$ b = &l

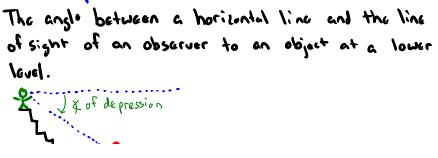
A	<u>sile C</u> cos 34 = <u>8.1</u> c	<u>side a</u> tan 34 = <u>a</u> 8.1	
	c 2 9.77 in	c ~ 5.46 in	



## Angle of Elevation



## Angle of Dapression

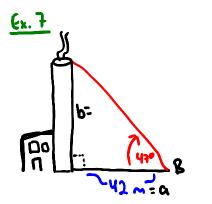


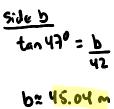


Ex.6

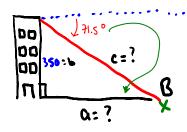


<u>side b</u>	MEB
(\$) <sup>2</sup> + b <sup>2</sup> + (20) <sup>2</sup>	$\cos B = \frac{8}{2}$
b <sup>1</sup> : 33L	20
b 🛫 18.33 ft	B= <mark>66.4°</mark>





Ex.3



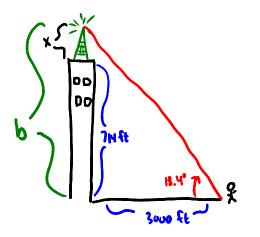
Alternute interior angle>

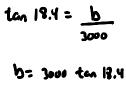
<u>side c</u> <u>sin 71.5<sup>0</sup> = 350</u> <u>c</u> tan 71.5<sup>0</sup> = <u>350</u> <u>a</u>

$$c = \frac{350}{5in71.5}$$
  $c_1 = \frac{350}{5m71.5}$ 

C= 369.07 ft G= 117.11 ft

<u>Éx.9</u>

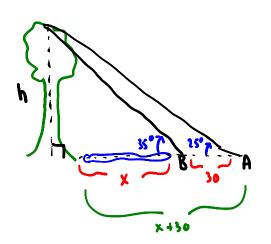




b = 997.97 ft

TV Tower
447.47 - 714
28 3.97 ft

Ex.10



59.31 ten 35=h h 2 41.83 m

tan 35°= <u>h</u> x	ten 25° = <u>h</u> x+30
X tan 35° = <mark>h</mark>	h=(x+30)ten25
	* xton 25 + 30 ton 25 - x ton 25
xtm3s-xt	an 15 = 30 ten 25
x (tan 35 - ti	in 25) = 30 ten 25
-	30 ten 25
	(tan 35-tin 25)
Xz	59.81 m