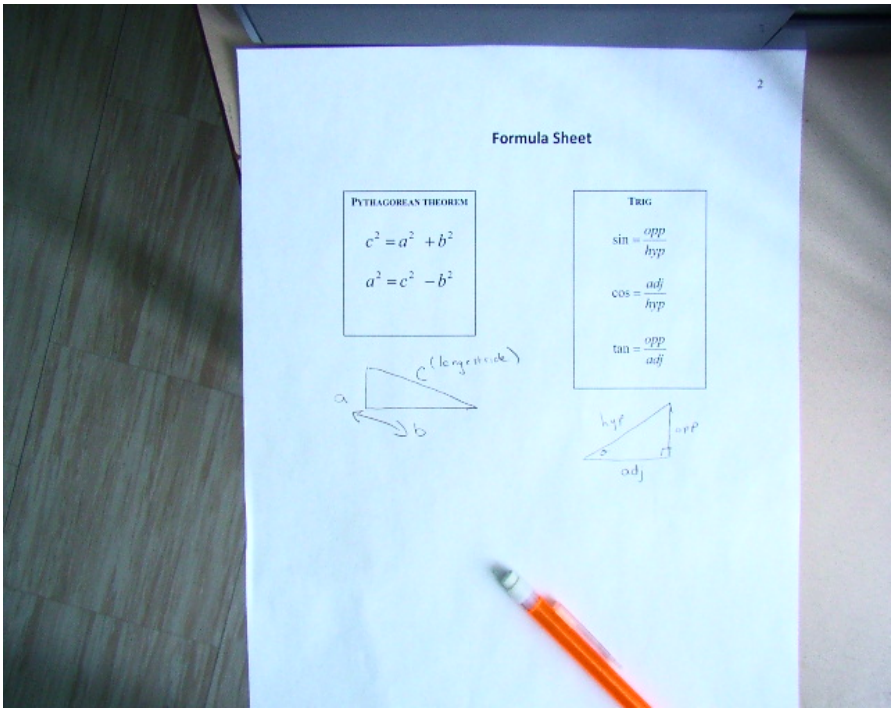
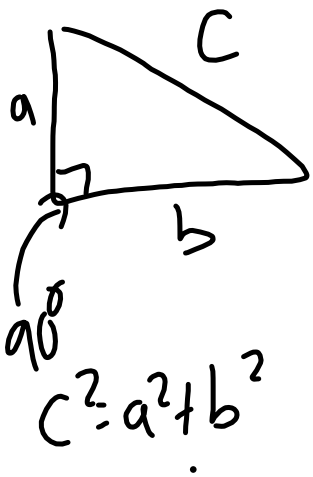
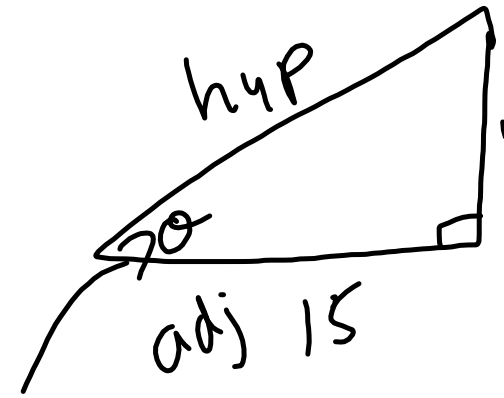

Formula Sheet
PYTHAGOREAN THEOREM
$c^2 = a^2 + b^2$
$a^2 = c^2 - b^2$
TRIG
$\sin = \frac{opp}{hyp}$
$\cos = \frac{adj}{hyp}$
$\tan = \frac{opp}{adj}$
c (largest side)
a
b
hyp
opp
adj


C
a
b
90°
$C^2 = a^2 + b^2$



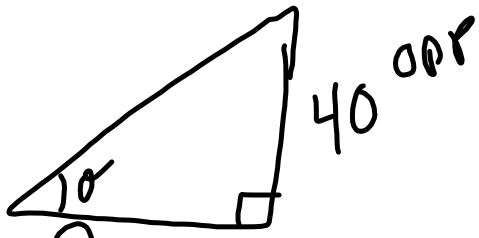
$\tan\theta = \frac{opp}{adj}$

$\tan\theta = \frac{4}{15}$ 2nd fun: tan

$\frac{\tan\theta}{\tan} = \frac{0.2667}{\tan}$

$\theta = 15^{\circ}$

21



60
adj

34°

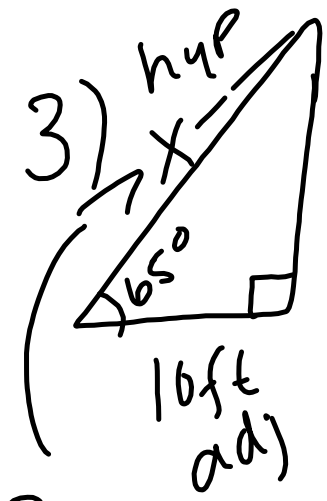
$\tan\theta = \frac{opp}{adj}$

$\tan\theta = \frac{40}{60}$

$\frac{\tan\theta}{\tan} = \frac{0.667}{\tan}$

$\tan: 33.6$

$\tan: 34$

3) 

23.6ft.

$\cos\theta = \frac{\text{adj}}{\text{hyp}}$ (angle)

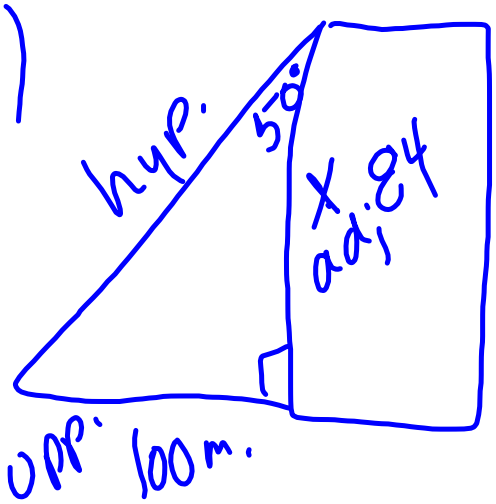
$\cos 65 = \frac{10}{x}$

$x = \frac{10}{\cos 65}$

$x = \frac{10}{0.4226}$

$x = 23.6$

4)



Building.

Angle.

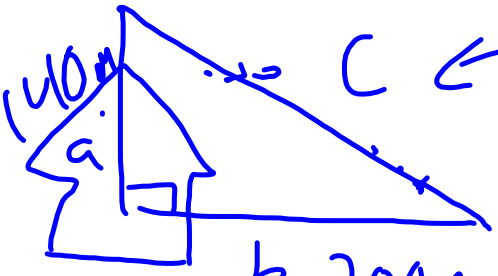
$\tan\theta = \frac{opp}{adj}$

$\tan 50^\circ = \frac{100}{X}$

$X = \frac{100}{\tan 50^\circ}$

$X = \frac{100}{1.19}$

$X = 84$

5 b) 

Expand is before adding or subtracting.

$c^2 = a^2 + b^2$

$c^2 = 140^2 + 200^2$

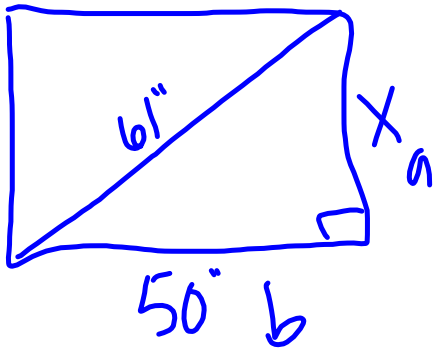
$c^2 = 19600 + 40000$

$c^2 = 59600$

$\sqrt{c^2} = \sqrt{59600}$

$c = 244.1$

7



$c^2 = a^2 + b^2$ -50

$61^2 = a^2 + 50^2$

$61^2 - 50^2 = a^2$

$a^2 = 61^2 - 50^2$

① Exponents
② Subtract.
③ Square Root

Financet Workplace Exam

Written

Wednesday January 21, 2015

Room 719 8:30 - 10:30