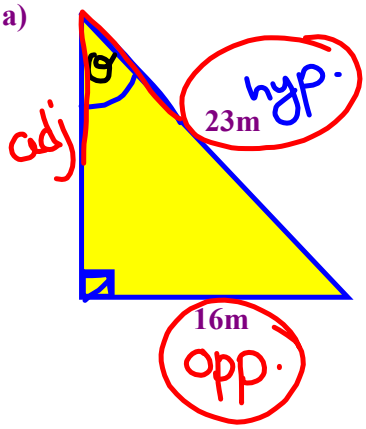
Warm Up Questions

a)



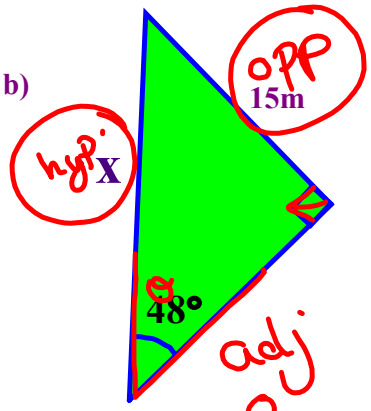
$\sin\theta = \frac{o}{h}$

$\sin\theta = \frac{16}{23}$

$\sin\theta = 0.6957$

$\theta = 44°$

b)



$\sin\theta = \frac{o}{h}$

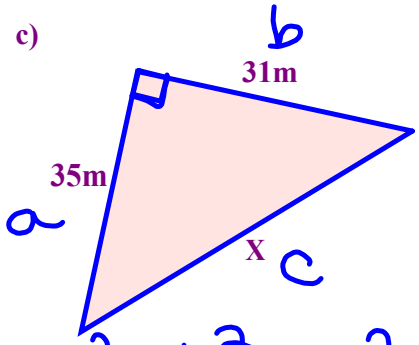
$\frac{\sin 48}{1} = \frac{15}{x}$

$\frac{0.7431}{1} \rightarrow \frac{15}{x}$

$0.7431x = 15$

$\frac{0.7431x}{0.7431} = \frac{15}{0.7431}$

c)



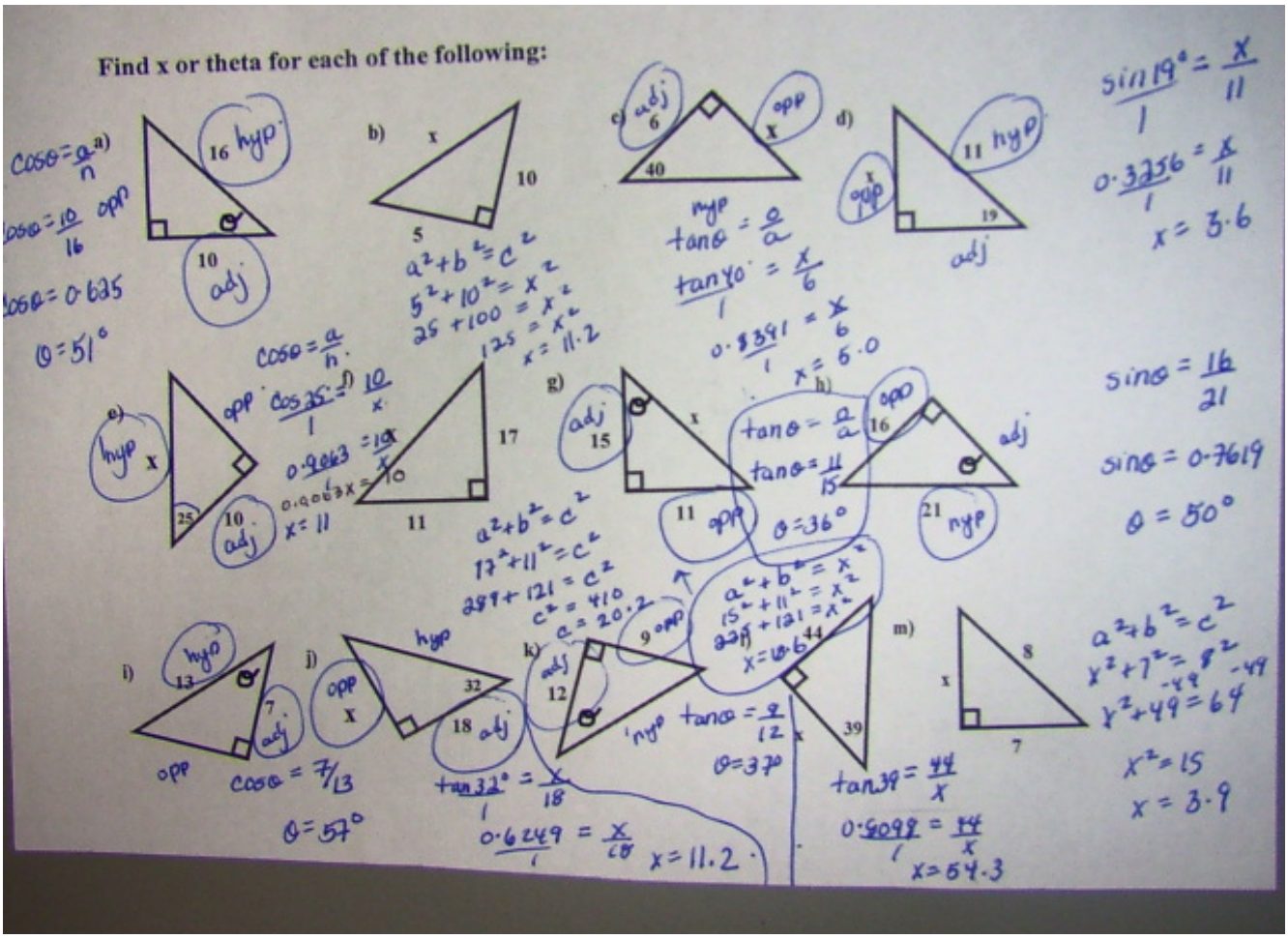
$a^2 + b^2 = c^2$

$35^2 + 31^2 = c^2$

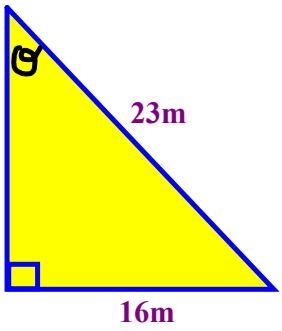
$1225 + 961 = c^2$

$\sqrt{2186} = \sqrt{c^2}$

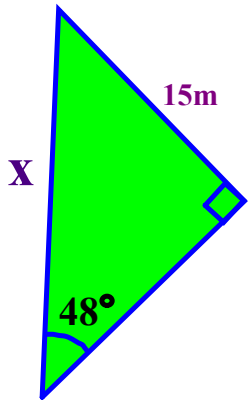
$x = 20.2\ 46.8 = c$


Find x or theta for each of the following:
a)
16 hyp
10 adj
b)
x
10
5
c)
adj 6
opp x
40
d)
11 hyp
x opp
19 adj
e)
hyp x
25
10 adj
f)
17
11
g)
adj 15
x
11 opp
h)
opp 16
adj
21 hyp
i)
hyp 13
7 adj
opp
j)
hyp
opp x
32
18 adj
k)
adj 12
9 opp
hyp
l)
x
39
m)
x
8
7

a)



b)



c)