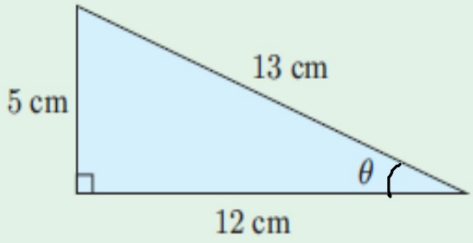
Chapter 15 Review B page 479-480 03/07/2019

1)Make "your cheet sheet"
2) E-mail your parents the due day of your Notebook
(CC me on this e-mail)

REVIEW SET 15B

1 Find $\sin\theta$, $\cos\theta$, and $\tan\theta$ for the triangle:

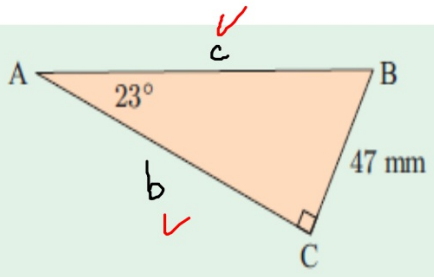


1) $\sin\theta = \frac{5}{13}$

2) $\cos\theta = \frac{12}{13}$

3) $\tan\theta = \frac{5}{12}$

2 Find the lengths of the unknown sides:



1) $\sin 23^\circ = \frac{47}{c}$

$c \cdot \sin 23^\circ = 47$

$c = \frac{47}{\sin 23}$

$c = 120.28$

2) $\tan 23^\circ = \frac{47}{b}$

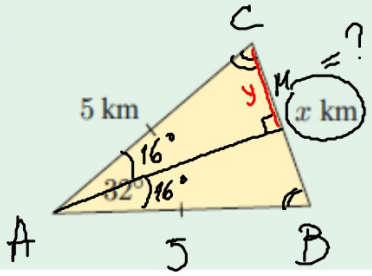
$b \tan 23^\circ = 47$

$b = \frac{47}{\tan 23^\circ}$

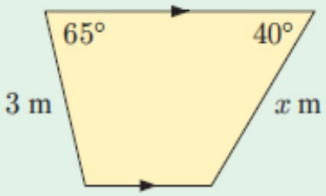
$b = 110.72$

3 Find, correct to two significant figures, the value of x in:

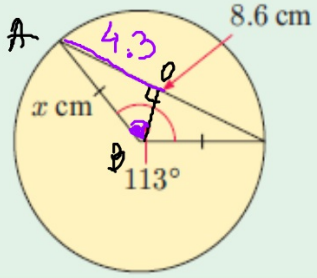
a



b



c



a) $\triangle AMC$

$\sin 16^\circ = \frac{y}{5}$

$5 \sin 16^\circ = y$

$1.37 = y$

$x = (1.37) \cdot 2 = 2.74 = x$

$113^\circ \div 2 = 56.5^\circ$

$\triangle ABO$

$\sin 56.5^\circ = \frac{4.3}{x}$

$x \cdot \sin 56.5^\circ = 4.3$

$x = \frac{4.3}{\sin 56.5^\circ} = 5.15$

4 From a point 120 m horizontally from the base of a building, the angle of elevation to the top of the building is 34°. Find the height of the building.