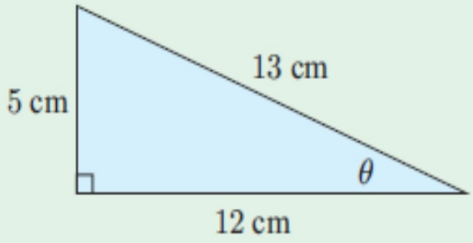
Chapter 15 Review B page 479-480 03/07/2019

1)Make "your cheat 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:

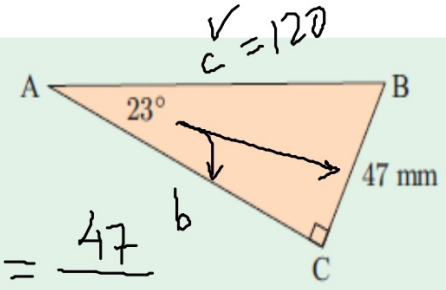


1) $\sin\theta = \frac{5}{13}$

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

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

2 Find the lengths of the unknown sides:



$c = ?$ $b = ?$

1) $\sin 23^\circ = \frac{47}{c}$ $\left(\frac{\text{opp}}{\text{hyp}}\right)$

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

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

$c \approx 120.2$

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

$b \tan 23^\circ = 47$

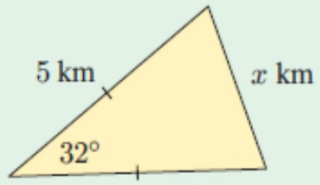
$b = \frac{47}{\tan 23^\circ}$

$b = 110.72$

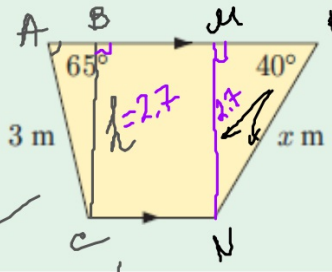
$120^2 = 47^2 + b^2$

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

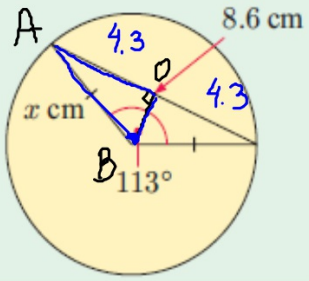
a



b



c



$\triangle ABC$

1) $\sin 65° = \frac{h}{3}$

$3 \sin 65° = h$

$\boxed{2.7 = h}$

2) $\triangle MNP$

$\sin 40° = \frac{27}{x}$

$x \cdot \sin 40° = 27$

$x = \frac{27}{\sin 40}$

$113° \div 2 = \boxed{56.5°}$

$\triangle ABO$

$\sin 56.5° = \frac{4.3}{x}$

$x \cdot \sin 56.5° = 4.3$

$x = \frac{4.3}{\sin 56.5} = 5.1$

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.