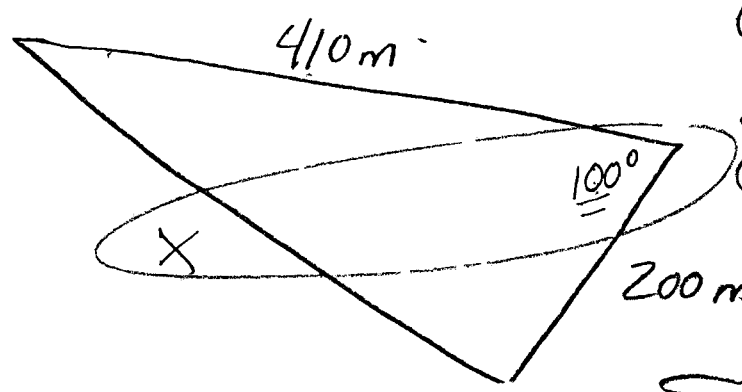


Algebra 2

FRIDAY 1-4-13

CLASS NOTES

7.



WALK  $2 \frac{m}{s}$

MIN. FOR COMPLETE CIRCUIT?

$100^\circ \Rightarrow \text{ref } \angle = 80^\circ$

$$X^2 = 410^2 + 200^2 - 2(410)(200)(-\cos 80^\circ)$$

$$X^2 = 168100 + 40000 - (164000)(-.1736)$$

$$X^2 = 208100 + 28470.4$$

$$X^2 = 236570.4$$

$$X = 486.385$$

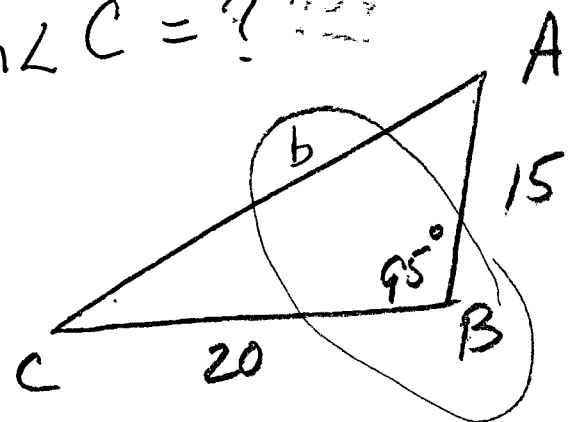
$$\therefore p = 410 + 200 + 486.4 = 7096.4 \text{ m}$$

$$t = \frac{7096.4 \text{ m}}{2 \frac{m}{s}} = 3548.2 \text{ seconds} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$$t = 9.14 \text{ min}$$

$$t = 9 \text{ min}$$

9.  $m\angle C = ?$



cos is  $\ominus$   
 $95^\circ \Rightarrow \text{REFL}$   
 $= 85^\circ$

$$b^2 = 20^2 + 15^2 - 2(20)(15) \quad (-\cos 85)$$

$$b^2 = 400 + 225 - 600(-.0872)$$

$$b^2 = 625 + 52.32 = 677.32$$

$$b = 26.025 \quad \swarrow 85^\circ$$

$$\frac{\sin C}{15} = \frac{\sin 95}{26.025} = \frac{(0.9962) \cdot 15}{26.025}$$

$$\sin^{-1}(.5742) = C$$

$$C = 35.04^\circ$$

$$\boxed{C = 35^\circ}$$