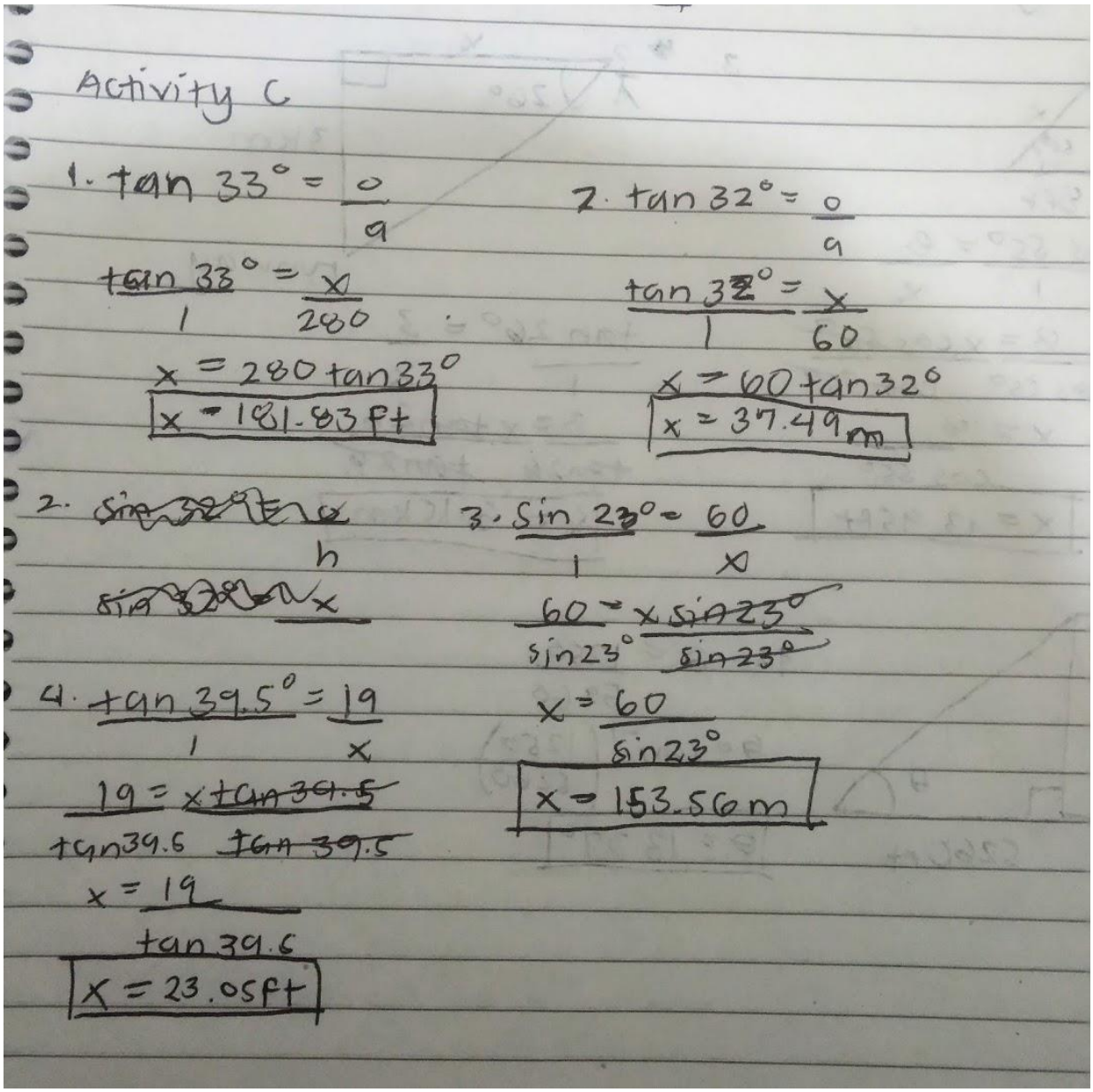
Angeles City Science High School

Mathematics 9

Name: Paul Gerald D. Pare **Section:** 9 - Adenine



5. $\frac{\tan 32^\circ}{1} = \frac{x}{115}$

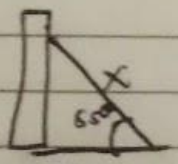
$x = 115 \tan 32^\circ$

$x = 71.86 + 5$

$\boxed{x = 76.86 ft}$

Activity D

2.



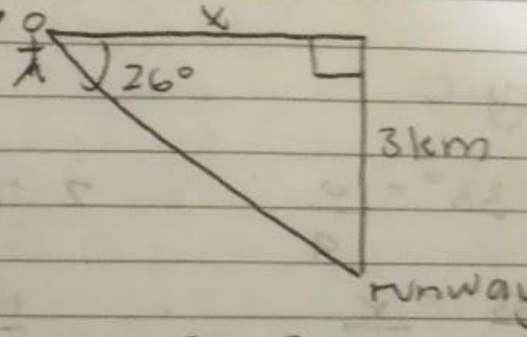
$\frac{\cos 55^\circ}{1} = \frac{8}{x}$

$\frac{8}{\cos 55^\circ} = \frac{x \cos 55^\circ}{\cos 55^\circ}$

$x = \frac{8}{\cos 55^\circ}$

$\boxed{x = 13.95 ft}$

3.

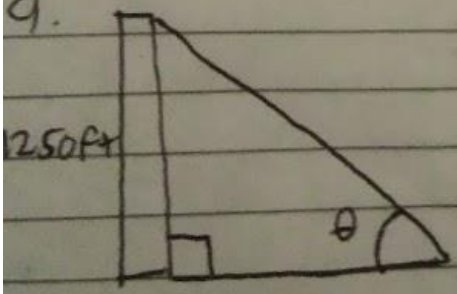


$\frac{\tan 26^\circ}{1} = \frac{3}{x}$

$\frac{3}{\tan 26} = \frac{x \tan 26}{\tan 26}$

$\boxed{x = 6.15 km}$

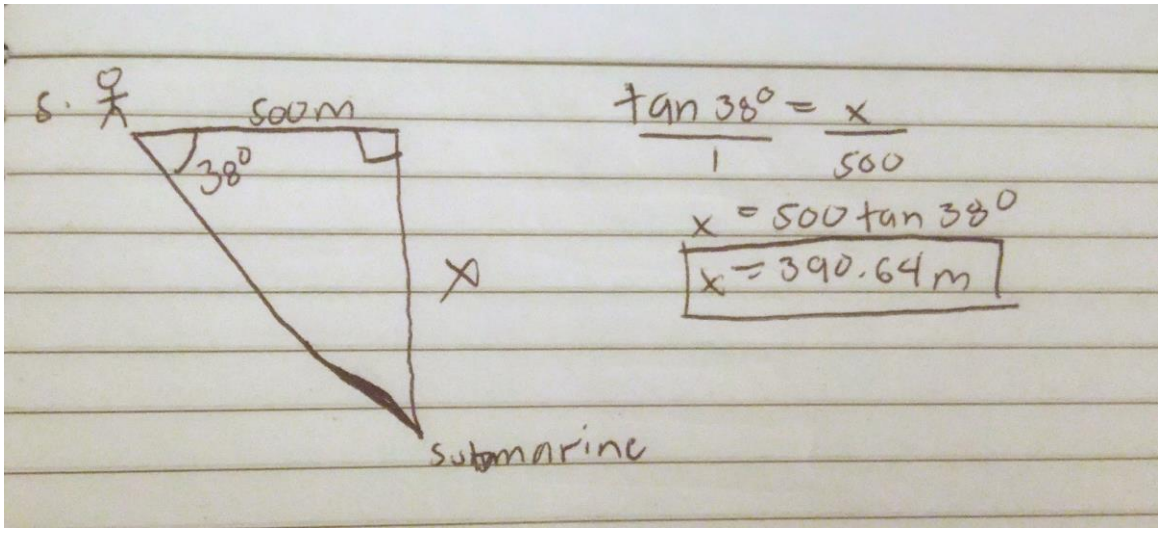
4.



$\tan \theta = \frac{1250}{5260}$

$\theta = \tan^{-1}\left(\frac{1250}{5260}\right)$

$\boxed{\theta = 13.37^\circ}$



$$\frac{\tan 38^\circ}{1} = \frac{x}{500}$$

$$x = 500 \tan 38^\circ$$

$$\boxed{x = 390.64\text{ m}}$$