

Angeles City Science High School

Mathematics 9

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Section: 9 - Adenine

Activity C

$$1. \tan 33^\circ = \frac{0}{9}$$

$$\frac{\tan 33^\circ}{1} = \frac{x}{280}$$

$$x = 280 \tan 33^\circ$$

$$\boxed{x = 181.83 \text{ ft}}$$

$$2. \tan 32^\circ = \frac{0}{9}$$

$$\frac{\tan 32^\circ}{1} = \frac{x}{60}$$

$$x = 60 \tan 32^\circ$$

$$\boxed{x = 37.49 \text{ m}}$$

$$2. \frac{\sin 32^\circ}{h} = \frac{x}{h}$$

$$\sin 32^\circ = \frac{x}{h}$$

$$3. \frac{\sin 23^\circ}{1} = \frac{60}{x}$$

$$\frac{60}{\sin 23^\circ} = \frac{x \sin 23^\circ}{\sin 23^\circ}$$

$$x = \frac{60}{\sin 23^\circ}$$

$$\boxed{x = 153.56 \text{ m}}$$

$$4. \frac{\tan 39.5^\circ}{1} = \frac{19}{x}$$

$$19 = x \tan 39.5^\circ$$

$$\frac{19}{\tan 39.5^\circ} = \frac{x \tan 39.5^\circ}{\tan 39.5^\circ}$$

$$x = \frac{19}{\tan 39.5^\circ}$$

$$\boxed{x = 23.05 \text{ ft}}$$

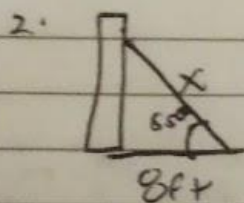
$$5. \frac{\tan 32^\circ}{1} = \frac{x}{115}$$

$$x = 115 \tan 32^\circ$$

$$x = 71.86 + 5$$

$$x = 76.86 \text{ ft}$$

Activity D



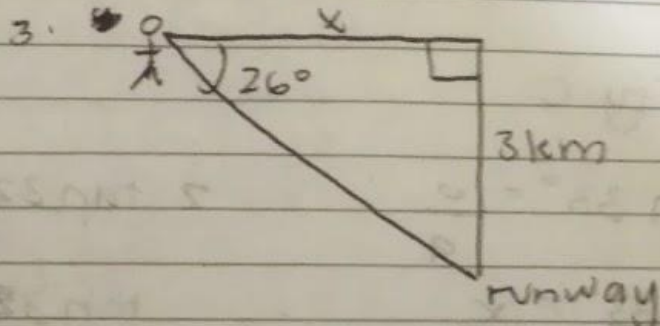
$$\frac{\cos 55^\circ}{1} = \frac{8}{x}$$

$$8 = x \cos 55^\circ$$

$$\cos 55^\circ \quad \cos 55^\circ$$

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

$$x = 13.95 \text{ ft}$$



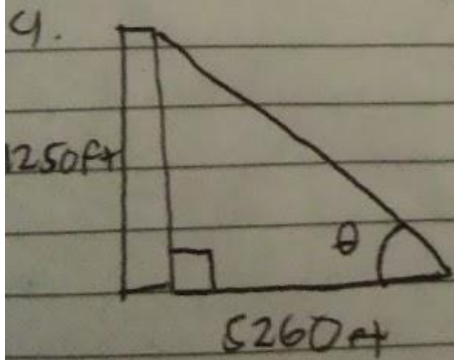
$$\frac{\tan 26^\circ}{1} = \frac{3}{x}$$

$$3 = x \tan 26^\circ$$

$$\tan 26^\circ \quad \tan 26^\circ$$

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

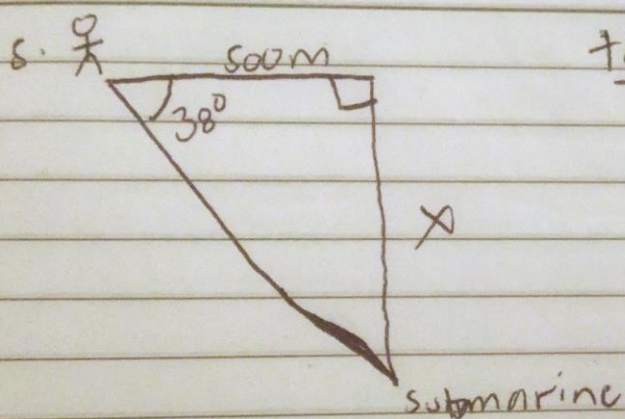
$$x = 6.15 \text{ km}$$



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

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

$$\theta = 13.37^\circ$$



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

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

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