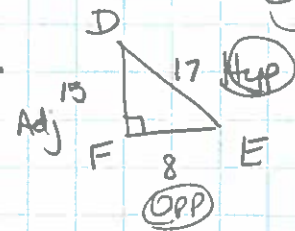
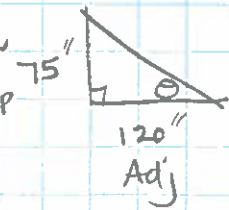
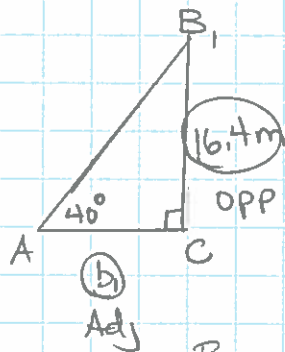
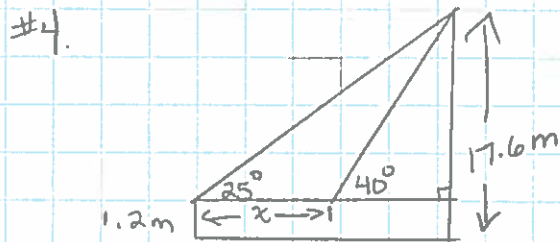


# Skill reflection #1

#1.   $\sin D = \frac{8}{17}$  (C)

#2.   $\tan \theta = \frac{75}{120}$   
 $\theta \approx 32^\circ$  (D)

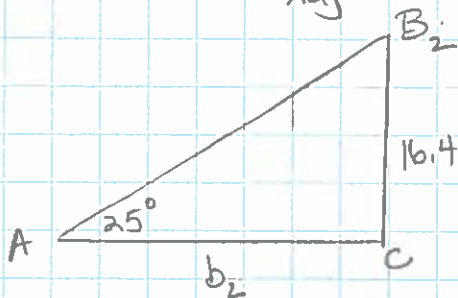
#3.  $\sin A = \frac{5}{13}$      $\cos A = \frac{12}{13}$      $\tan A = \frac{5}{12}$   
 $\csc A = \frac{13}{5}$      $\cot A = \frac{12}{5}$      $\sec A = \frac{13}{12}$



$$\tan 40^\circ = \frac{16.4}{b_1}$$

$$b_1 = \frac{16.4}{\tan 40^\circ}$$

$$b_1 \approx 19.54$$



$$\tan 25^\circ = \frac{16.4}{b_2}$$

$$b_2 = \frac{16.4}{\tan 25^\circ}$$

$$b_2 \approx 35.17$$

$$x = b_2 - b_1$$

$$x \approx 15.6 \text{ metres}$$

$\therefore$  Both only drove 15.6 metres further away from the cafeteria