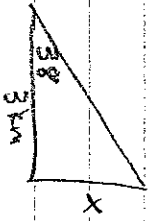
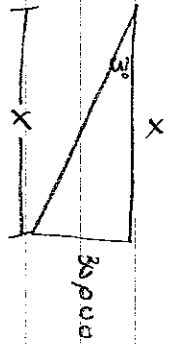


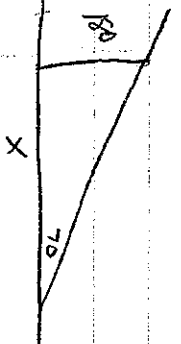
8.7

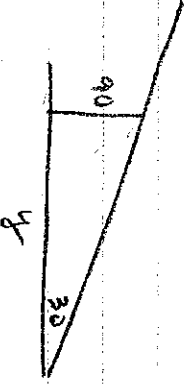
3  $\sin 40 = \frac{x}{51}$
 $51 \sin 40 = x \approx 33 \text{ m}$

4  $\tan 8 = \frac{x}{125}$
 $889 \approx x$

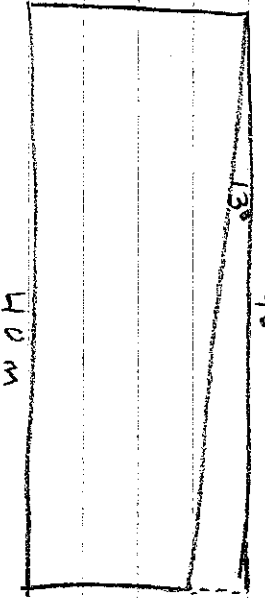
5  $\tan 38 = \frac{x}{3}$
 $2.3 \approx x$
 km

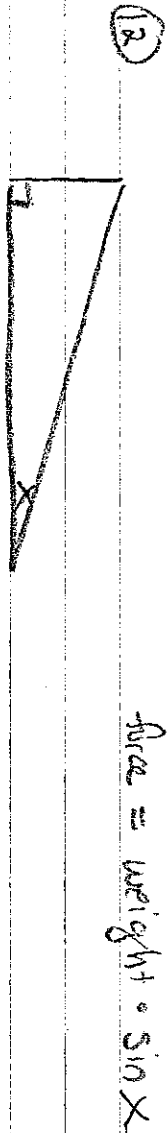
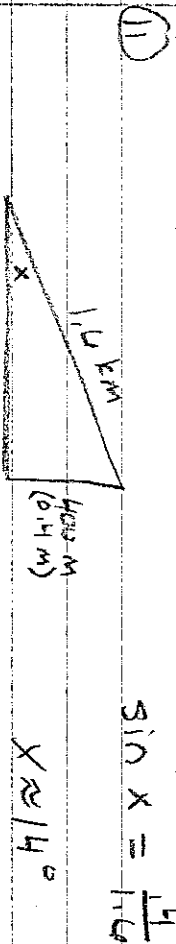
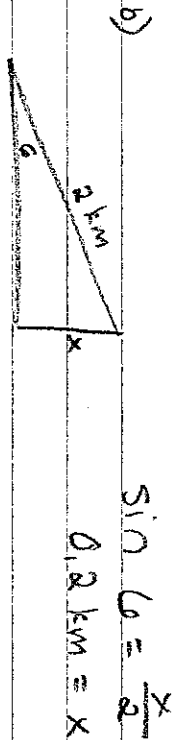
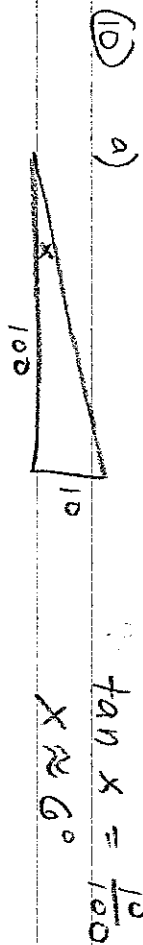
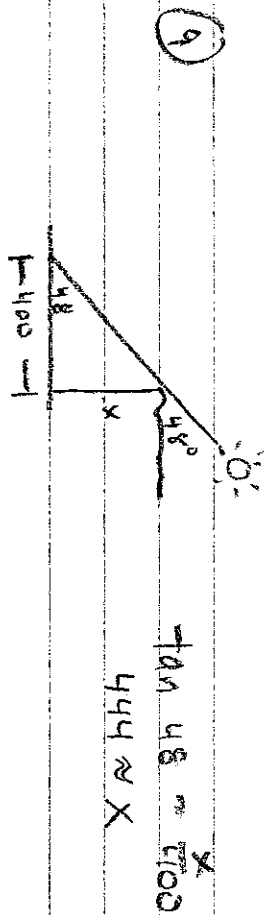
6  $\tan 3 = \frac{30000}{x}$
 $572434 = x$

7  $\tan 70 = \frac{180}{x}$
 $65.5 \approx x$

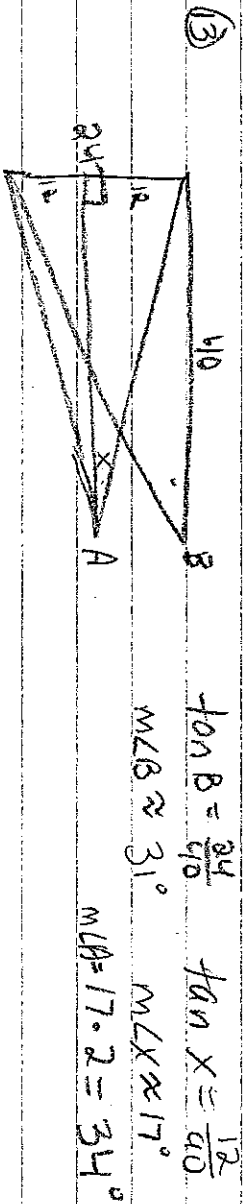
 $\tan 35 = \frac{90}{y}$
 $158.5 \approx y$

$128.5 - 65.5 \approx \sqrt{0.3}$

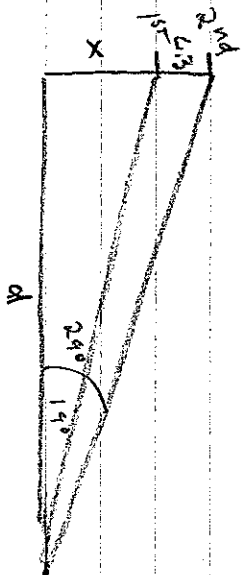
8  $\tan 13 = \frac{d}{40}$
 $9.2 \approx d$
 $185 - 9.2 \approx 176 \text{ m}$



a) force = $3000 \cdot \sin 3^\circ$ b)
 force $\approx 157 \text{ lb}$



(14)



$$\tan 19 = \frac{x}{d}$$

$$.344 \approx \frac{x}{d}$$

$$\tan 29 = \frac{x + 0.3}{d}$$

$$.564 \approx \frac{x + 0.3}{d}$$

$$.344d = x$$

$$.564d = x + 0.3$$

$$.564d - 0.3 = x$$

$$.344d = .564d - 0.3$$

$$-.2 = -0.3$$

$$3.15 = d$$

$$.344(3.15) = x$$

$$1.08 \approx x$$

