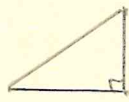
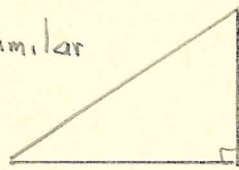
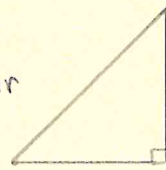


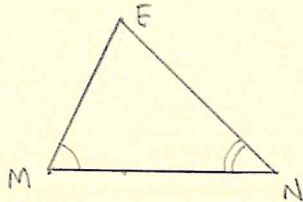
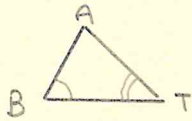
Pg. 5, #2

Two right triangles are **SOMETIMES** similar.

Similar

NOT
similar

Pg. 5, #5

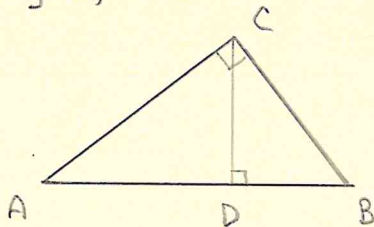


a) $\triangle BAT \sim \triangle MEN$

b) $\frac{BA}{ME} = \frac{AT}{EN} = \frac{BT}{MN} \quad \left(\frac{b}{m} = \frac{a}{e} = \frac{t}{n} \right)$

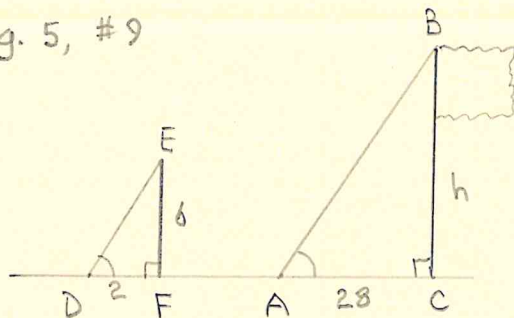
c) $\frac{3}{e} = \frac{2}{6} \Rightarrow 2e = 3 \cdot 6 = 18$
 $\Rightarrow \boxed{e = 9}$

Pg. 5, #8



$\triangle ABC \sim \triangle ACD \sim \triangle CBD$

Pg. 5, #9

Since $\triangle ABC \sim \triangle DEF$, we have

$$\frac{h}{6} = \frac{28}{2} \Rightarrow h = \frac{6 \cdot 28}{2} = 6 \cdot 14 = \boxed{84 \text{ ft.}}$$