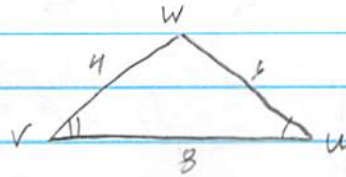
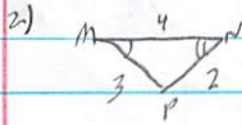


Pg 249 #1-20

1) DEKUS / TEACHER'S DESK

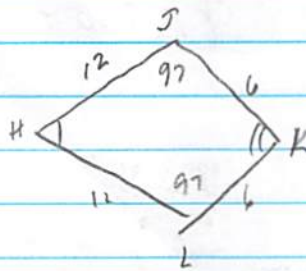
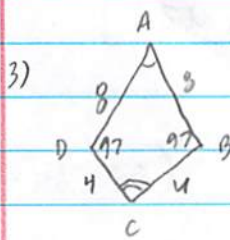


$$\frac{MN}{VU} = \frac{MP}{UW} = \frac{NP}{VW}$$

$$\angle M \cong \angle U$$

$$\angle N \cong \angle V$$

$$\angle P \cong \angle W$$

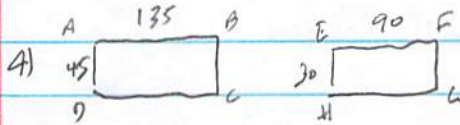


$$\angle C \cong \angle K$$

$$\angle A \cong \angle J$$

$$\angle D \cong \angle B \cong \angle J \cong \angle L$$

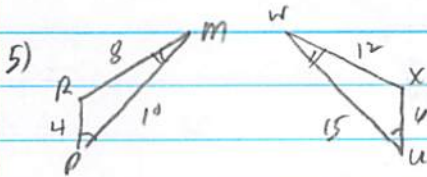
$$\frac{AD}{HL} = \frac{AB}{HS} = \frac{DC}{LK} = \frac{BC}{JK}$$



$$\frac{45}{30} = \frac{135}{90}$$

$$ABCD \sim EFGH$$

$$1.5 = 1.5$$



$$\frac{4}{6} = \frac{8}{12} = \frac{10}{15} = \sqrt{.66}$$

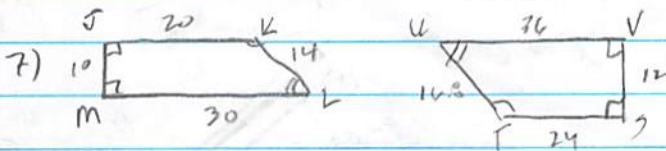
$$\triangle RMP \sim \triangle XWU$$

6)

$$\frac{58}{73} = \frac{24}{x}$$

$$58x = 1752$$

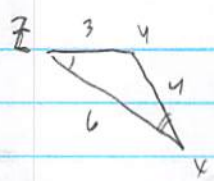
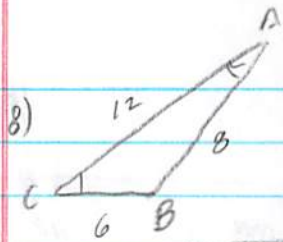
$$x = 30.206 \approx 30 \text{ ft}$$



$$\angle J \cong \angle M \cong \angle V \cong \angle S$$

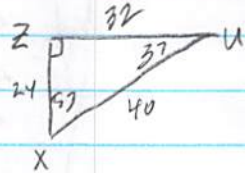
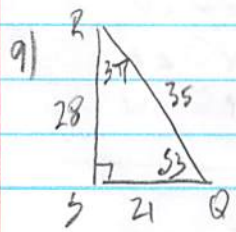
$$\angle K \cong \angle T ; \angle L \cong \angle U$$

$$\frac{JK}{TS} = \frac{KL}{TU} = \frac{LM}{UV} = \frac{MN}{VS}$$



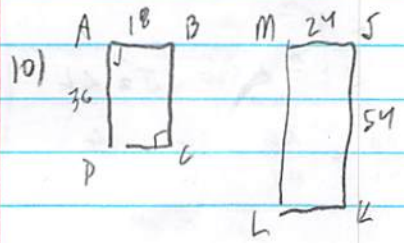
$$\frac{AC}{XZ} = \frac{CB}{ZY} = \frac{BA}{YX}$$

$$\angle C \cong \angle Z; \angle B \cong \angle Y; \angle A \cong \angle X$$



$$\frac{21}{24} = \frac{28}{32} = \frac{35}{40} = .875$$

$$\triangle RSQ \sim \triangle UZX$$



$$\frac{18}{24} = \frac{36}{54}$$

$$.75 \neq .66$$

(54 SHOULD BE 48)

NOT SIMILAR

11)

$$\frac{3}{x} = \frac{1}{56}$$

$$x = 168 \text{ m} = 14 \text{ ft}$$

12)

$$A_{ABCD} = 4 \text{ M}^2 \quad A_{PQRS} = 36 \text{ M}^2$$

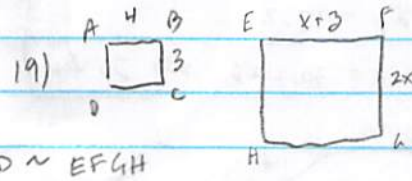
RATIO

$$\frac{ABCD}{PQRS} = \frac{2}{6} = \frac{1}{3}$$

RATIO

$$\frac{PQRS}{ABCD} = \frac{6}{2} = \frac{3}{1}$$

- 13) SOMETIMES
- 14) ALWAYS
- 15) NEVER
- 16) ALWAYS
- 17) SOMETIMES



$$ABCD \sim EFGH$$

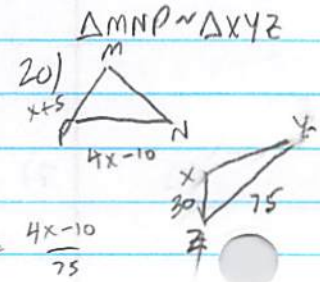
$$\frac{4}{x+3} = \frac{3}{2x-4}$$

$$4(2x-4) = 3(x+3)$$

$$8x-16 = 3x+9$$

$$5x = 25$$

$$x = 5$$



$$\frac{x+5}{30} = \frac{4x-10}{75}$$

$$75(x+5) = 30(4x-10)$$

$$75x + 375 = 120x - 300$$

$$675 = 45x$$

$$x = 15$$

18) REGULAR POLYGONS
HAVE THE SAME SIDE
LENGTHS → SIMILAR