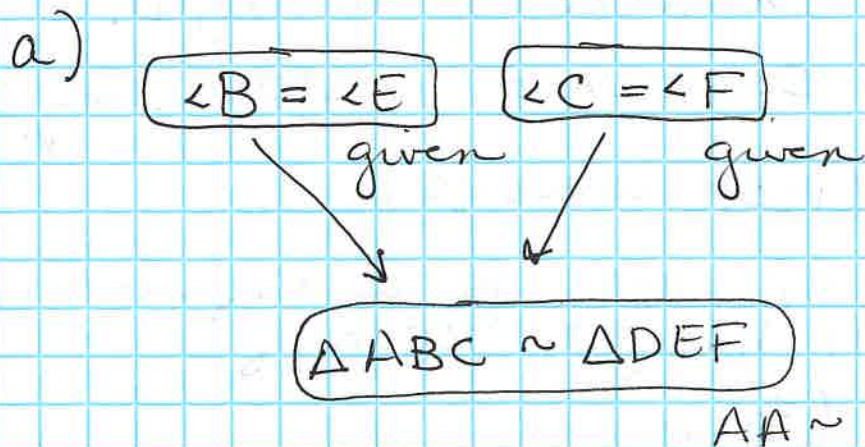


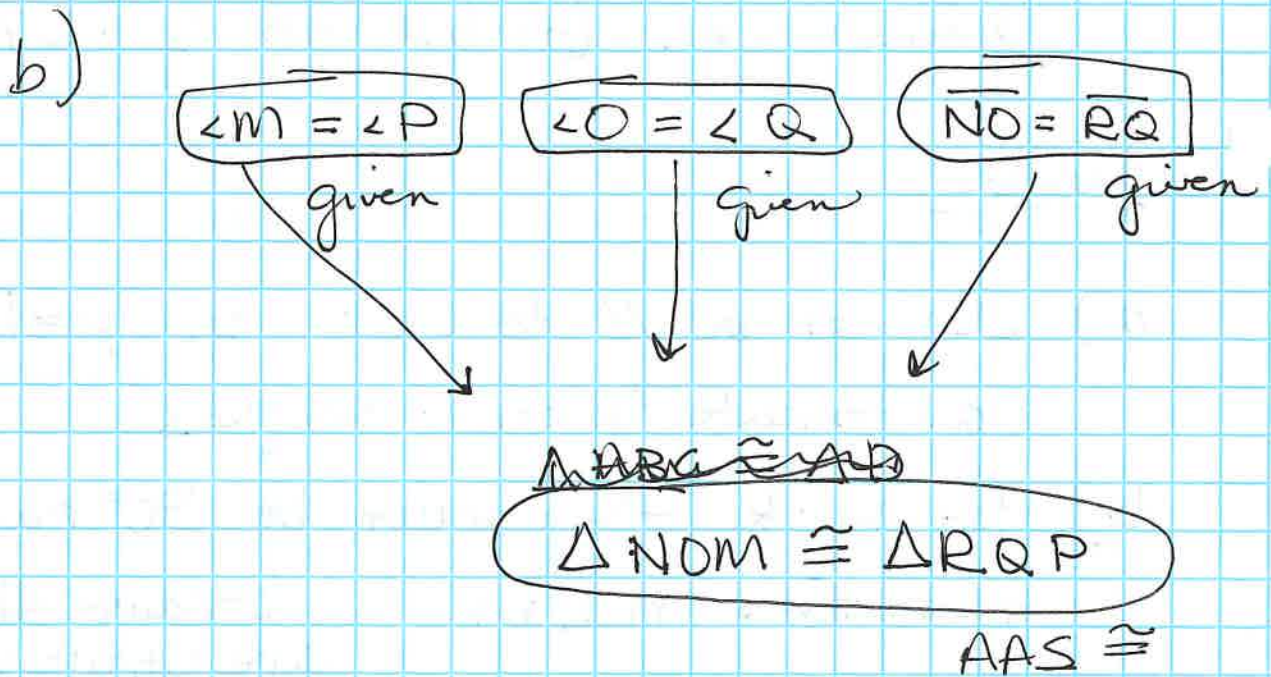
homework 6-62 to 6-67

6-62

- a) l must be \parallel to m for $p = h$
alternate interior angles
- b) for $w = k$ they must be 90° each
therefore $n \perp m$ because they are straight angles
- c) $r = q$ ~~are~~ r and q are vertical angles which are always $=$
- d) that would have to mean l is not parallel to m

6-63





c) Neither

6-64

a) If the cat runs away frightened then it knocked over the lamp.
(not always)

b) If the chances of rolling a 3 are $\frac{1}{6}$ then a standard 6-sided die is rolled.
(not always)

c) If a triangle is a right triangle then it has a 90° angle.
(true)

6-65

$$\frac{1}{4}(10) + \frac{1}{4}(-3) + \frac{1}{2}(6)$$

$$\frac{10}{4} + \frac{-3}{4} + \frac{6}{2} = \frac{19}{4} \text{ or } 4\frac{3}{4}$$

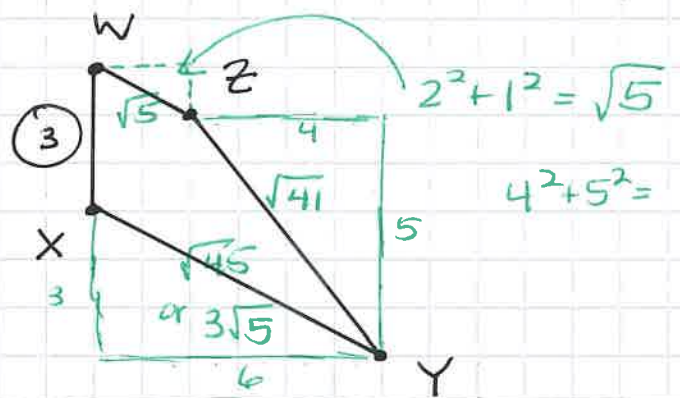
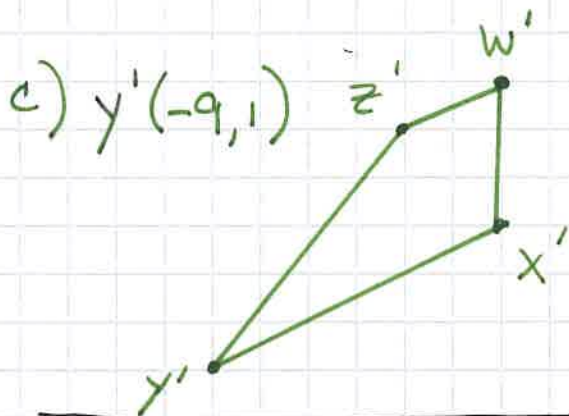
$(\frac{12}{4})$

6-66

D

6-67

a) Trapezoid
 $\overline{WZ} \parallel \overline{XY}$



90° rotate clockwise
 $(x, y) \rightarrow (+y, -x)$

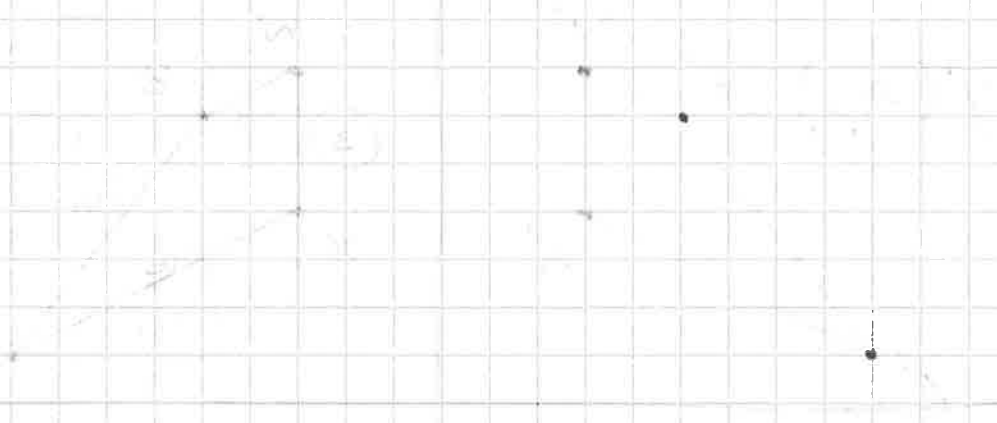
b) $3 + \sqrt{5} + \sqrt{41} + \sqrt{45}$

$P \approx 18.35 \text{ um}$

d) $\frac{-2}{-1} = 2$

Handwritten notes at the top of the page, including the word "Satz" and some mathematical symbols.

Handwritten notes in the middle section, possibly defining variables or stating a theorem.



Handwritten notes at the bottom of the page, including the word "Beweis" and some mathematical symbols.

Additional handwritten notes at the very bottom of the page, possibly concluding the proof or providing further examples.