

Angles and Parallels

Name Answers?

Part 1 - Name each angle pair.

Use

C= Corresponding,

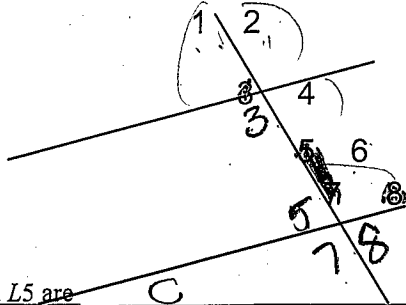
AI= Alternate Interior,

SSI= Same Side Interior

V= Vertical

AE= Alternate Exterior

SSE= Same Side Exterior



L1 and L5 are C

L4 and L6 are SSI

L1 and L8 are AE

L2 and L3 are V

L8 and L5 are V

L3 and L6 are AI

L2 and L6 are C

Looking at the list above tell me if the pairs are equal or supplements or no connection.

L1 and L5 are equal

L4 and L6 are sup.

L2 and L3 are equal

L1 and L8 are equal

L3 and L6 are equal

L8 and L5 are equal

There for....

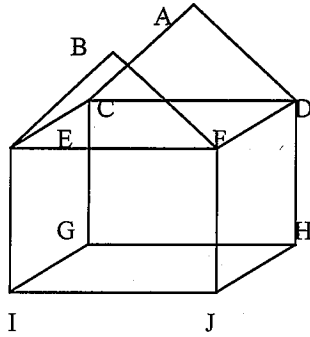
If L1 = 35° then L4 = 35°

If L5 = 27° then L4 = 27°

If L8 = 22.2° then L3 = 157.8°

$$\begin{array}{r} 178.0 \\ - 22.2 \\ \hline 157.8 \end{array}$$

Part 2-



Tell whether the pair of lines is

P= parallel

I= Intersecting

S= Skew

EF and IJ P

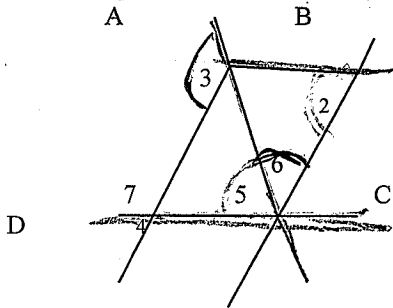
EB and FD S

GI and IJ I

AB and HJ P

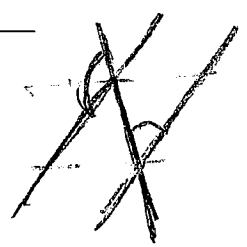
Part 3-

Name the parallel lines formed if you know the following.



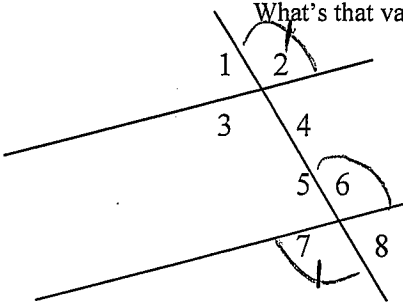
If $L2 + L6 + L5 = 180$ $\overline{AB} \parallel \overline{DC}$

$L3$ and $L6$ Boqus question



Part 4-

What's that variable equal?



If these two lines are parallel solve for the variable-

$L1$ is $x+5$ and $L2$ is $x+15$ $x = 80$

$$x+5 + x+15 = 180$$

$$2x+20 = 180$$

$$2x = 160 \quad x = 80$$

$L4$ is $2n+3$ and $L5$ is $n+5$ $n = 2$

$$2n+3 = n+5$$

$$2n = n+2$$

$$n = 2$$

$L7$ is $2y-4$ and $L2$ is $y+8$ $y = 6$

$$2y-4 = y+8$$

$$2y = 12$$

$$y = 6$$