

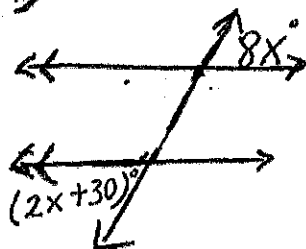
Part 1 Geometry Ch. 3 Study guide

Name: _____ Date: _____ Per.: _____

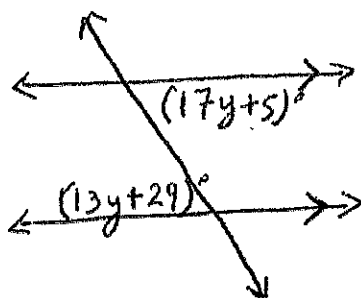
(MUST show work)

Find x and y .
the value of

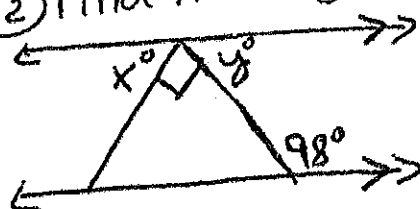
1A)



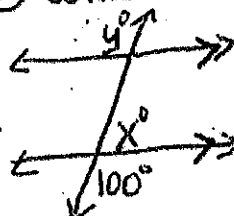
1B)



2 Find x and y .

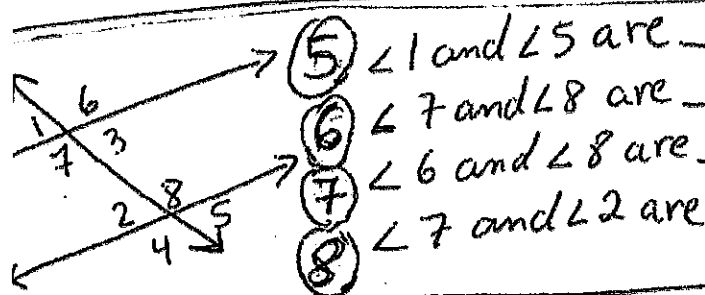
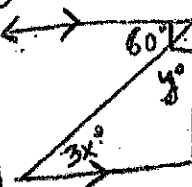


3 What is $x+y$?

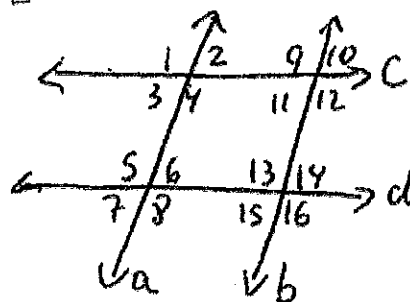


Write the Converse for the Statement:
If an angle measures less than 90° , then the angle is acute.

7 Find x and y .



- 5 $\angle 1$ and $\angle 5$ are _____
- 6 $\angle 7$ and $\angle 8$ are _____
- 7 $\angle 6$ and $\angle 8$ are _____
- 8 $\angle 7$ and $\angle 2$ are _____

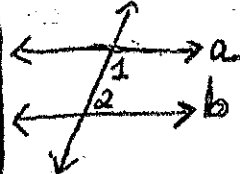


What lines are

parallel if:

- 10 $\angle 3 \cong \angle 10$? _____
- 11 $\angle 2 \cong \angle 6$? _____
- 12 $\angle 12 \cong \angle 13$? _____

13 Find the value of x that proves $a \parallel b$. $m\angle 1 = (10x+4)^\circ$ and $m\angle 2 = 46^\circ$.



Is $a \parallel b$? If yes, state the theorem that justifies it.

