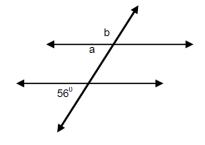
## 1.6 GEOMETRY ON THE PLANE 1 – ANGLES – EXERCISES & $PROBLEMS^1$

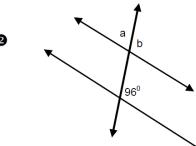
**1.** Without a protractor, using the properties of lines and angles, find the missing angles. Explain your reasoning.

0



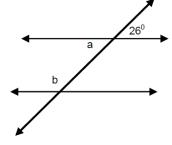
Explanation \_\_\_\_\_

0



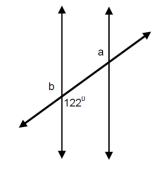
Explanation \_\_\_\_\_

ß



Explanation \_\_\_\_\_

4

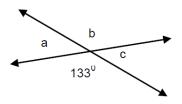


Explanation \_\_\_\_\_

<sup>&</sup>lt;sup>1</sup> based on source http://westernquebec.ca/

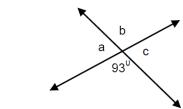
## 2. Find the missing angles. Explain your reasoning.

0



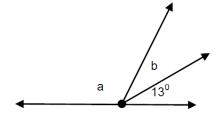
Explanation \_\_\_\_\_

0



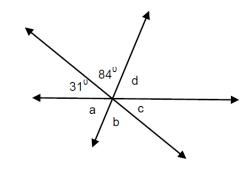
Explanation \_\_\_\_\_

8



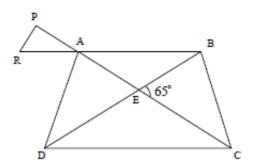
Explanation \_\_\_\_\_

4

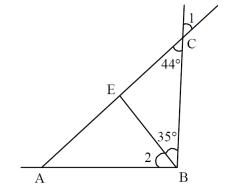


Explanation \_\_\_\_\_

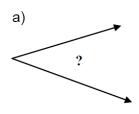
**3.** In the figure below,  $AB \parallel CD$ . Find the measure of angle  $\angle RAP$ . Give reason (in words) for each step or calculation.  $\angle PAC$  and  $\angle RAP$  are straight angles.

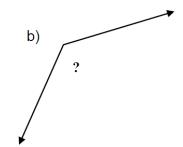


- **4.** Rays BA and BC are perpendicular, angle BCE measures 44 degrees and angle EBC measures 35 degrees.
  - a) Find the measure of 1. Give explanation.
  - b) Find the measure of 2. Give explanation.

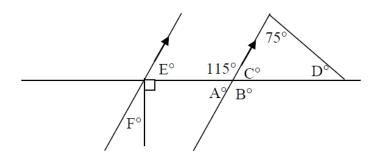


**5.** What is the measure of the following angles? What type of angles are they? How do you know?

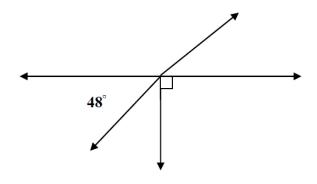




**6.** Solve the following angles.



## 7. What are all missing angles?



STUDENTS NOTES.