

Worksheet 2015-8EM-00004(1)

(1) Each of the following statements is incorrect. Correct the statement by writing the correct version:

(a) Corresponding angles are always equal.

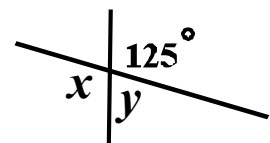
(b) A straight angle is greater than 180° .

(c) A revolution is double the size of a right angle.

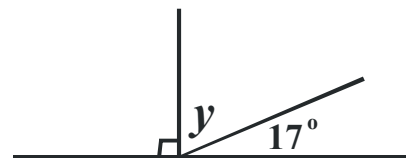
(2) Draw a sketch to describe the following: corresponding angles , alternate angles and co-interior angles.

(3) Determine the value(s) of x and/or y in each of the following sketches. Also give complete reasons.

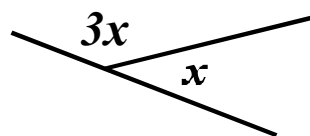
(a)



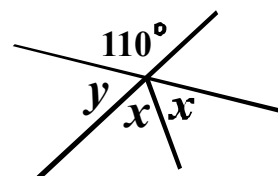
(b)



(c)

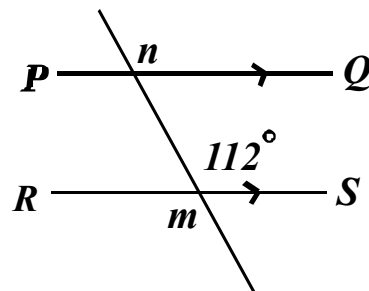


(d)

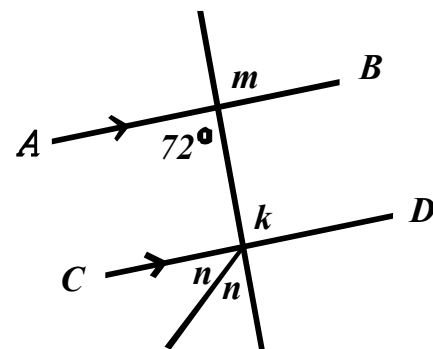


(4) Determine the value(s) of m , n and/or k in each of the following sketches. Also give complete reasons.

(a)



(b)



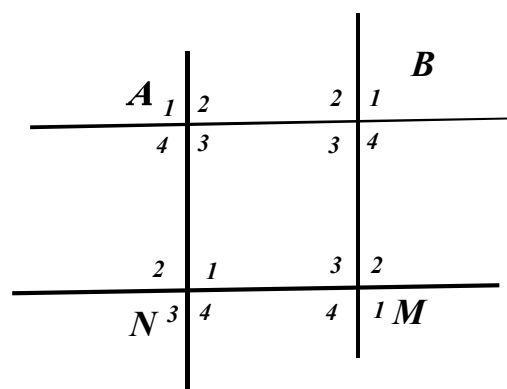
(5) In the sketch $AB \parallel NM$ and $AN \parallel BM$.

$$\angle BAN = 92^\circ$$

Calculate, with reasons. Show all calculations.

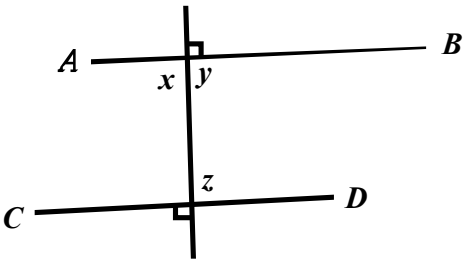
(a) $\hat{B}_1$

(b) $\hat{M}_1$



(6) Prove that $AB \parallel CD$ in each of the following sketches. Show all calculations:

(a)



(b)

