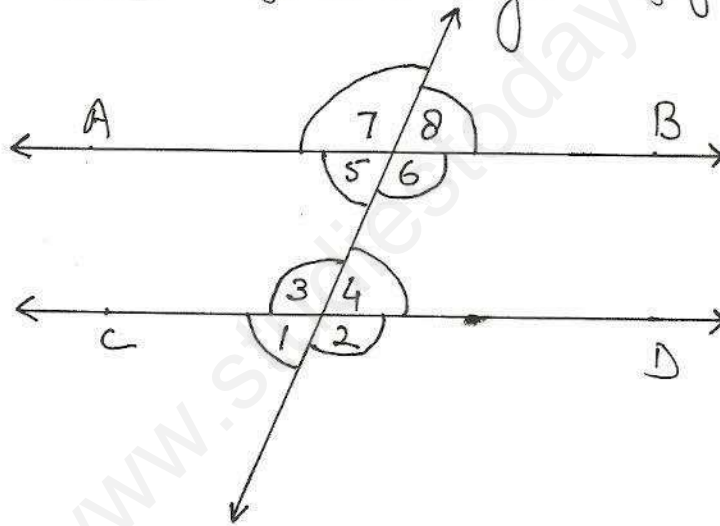


VII- Mathematics Assignment No-04-Lines and Angles

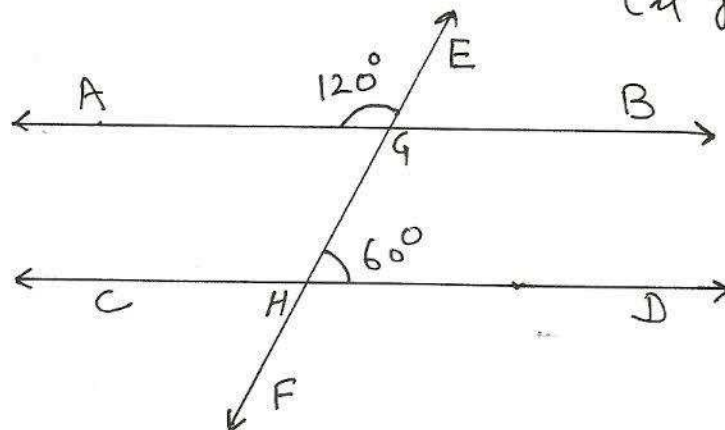
Q1. Find the pair of (Write one pair only)

- (i) Alternate Angles
- (ii) Corresponding angles
- (iii) Vertical angles
- (iv) Co-interior angles
- (v) linear pair

from the following figure, if $AB \parallel CD$

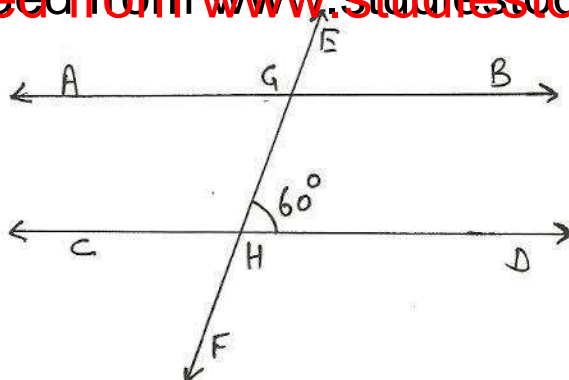


Q2. In the figure, is $AB \parallel CD$?
 if $\angle AGE = 120^\circ$, $\angle GHD = 60^\circ$. Why?
 (if yes)



Cont-Pg-2

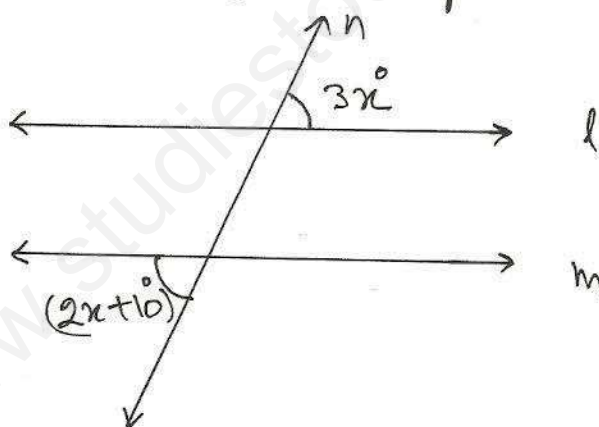
Q3.



In the above diagram, $AB \parallel CD$
and $\angle GHD = 60^\circ$, Find one pair
of

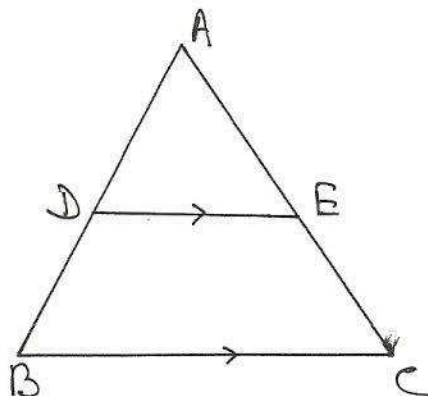
- (i) Alternate angle
- (ii) Corresponding angle
- (iii) Vertical angle

Q4



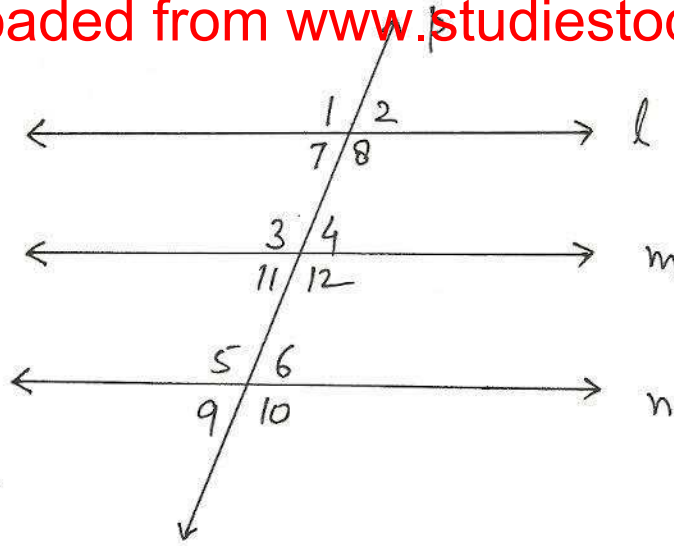
In the above figure $l \parallel m$, Find
the value of x

Q5. In $\triangle ABC$
 $DE \parallel BC$. If
 $\angle B = 60^\circ$, Find
 $\angle D$.



Cont-Pg-3

(Q5)



Observe the above diagram in which $l \parallel m \parallel n$. What you can say about the type of angle if

(i) $\angle 2 = \angle 4$

(ii) $\angle 5 + \angle 6 = 180^\circ$

(iii) $\angle 12 = \angle 5$

ANSWERS:

(Q1) (i) $\angle 3 = \angle 6$ (ii) $\angle 8 = \angle 4$ (iii) $\angle 5 = \angle 8$ (iv) $\angle 4$ and $\angle 6$ (v) $\angle 5 + \angle 6 = 180^\circ$	(ii) $\angle EGB = 60^\circ$ (iii) $\angle CHF = 60^\circ$	(Q6) (i) Pair of Corresponding \angle (ii) Linear Pair (iii) ^{Pair} Alternate angles
(Q2) Yes $\angle EGB = \angle GHD$ Corresponding \angle	(Q4) $x = 10^\circ$	
(Q3) (i) $\angle AGH = 60^\circ$	(Q5) $\angle ADE = 60^\circ$	