Anita's Coaching Classes

LINES AND ANGLES

Marks:25

Time:1:30hrs

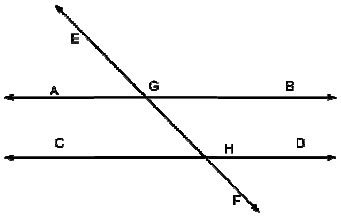
Q 1) $AB \parallel CD$, EF cuts them at G and H. [3]

If $\angle AGE = 65°$

find the other angles and give the reasons.

(a) $\angle EGB =$? (b) $\angle AGH =$? (c) $\angle BGH =$? (d) $\angle CHG =$?

(e) $\angle GHD =$? (f) $\angle CHF =$? (g) $\angle DHF =$?



Q 2). (a) Find the complements of the following angles.[1]

(a) 35° (b) 53°

(b) Find the supplements of the following angles.[1]

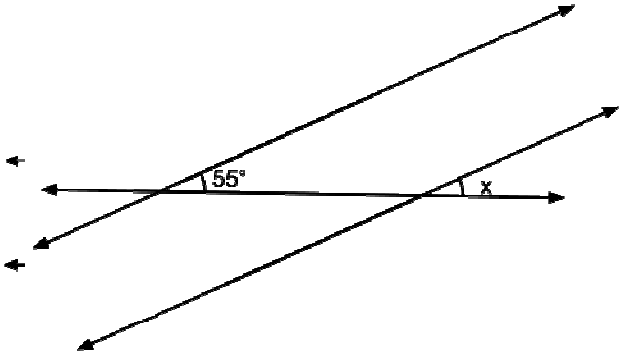
(a) 70° (b) 150°

Q 3) Identify the following pairs of the angle as complementary , supplementary or equal [3]

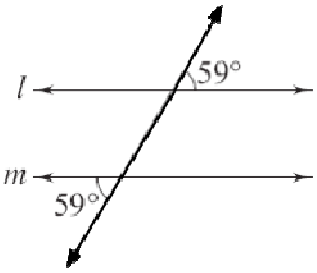
a) 77° and 103° b) 177°and 177° c) 7° and 173°

d) 3° and 87° e) 45° and 45° f) 90° and 90°

Q 4). Find the value of the required angle.[2]



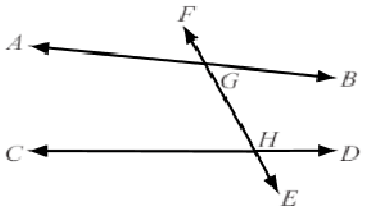
Q 5). State whether the following lines l and m are parallel. [2]



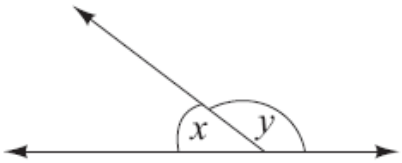
Q 6) From the figure. [3]

(a) Name two pairs of vertically opposite angles

(b) Name two pairs of interior angles
(c) Name two pairs of exterior angles
(d) Name two pairs of interior alternate angles
(e) Name two pairs of exterior alternate angles
(f) Name two pairs of corresponding angles.

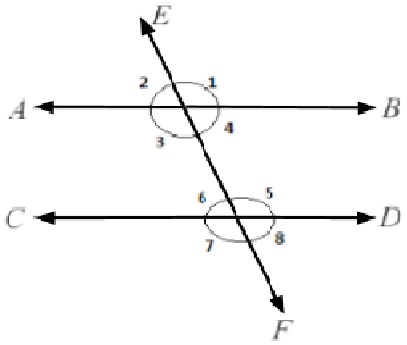
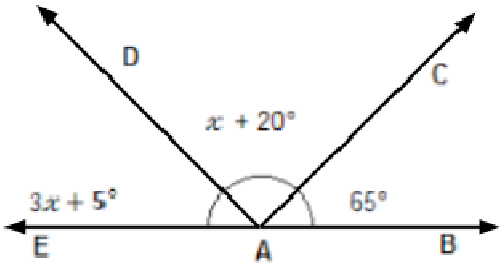


Q 7) The two angles in the figure are in the ratio 2 : 7. Find the measure of each angle.[2]



Q 8) Two complementary angles are in the ratio 7:8 , find the angles. [2]

Q 9) In the figure, it is given that AB ∥ CD . if $\angle 1 = 120° - 2x$ and $\angle 5 = 4x$, find the measures of ∠ 1 and ∠5. [3]



Q 10) find the value of x. [3]