14/10/19

Date: Page:

L → 9

Concepts of Geometry

Ex → 9a

1. Fill in the blanks.

a.) A point indicates position but has no size

b.) A line segement has two end points.

c.) A ray has one end point.

d.) A line has no end points.

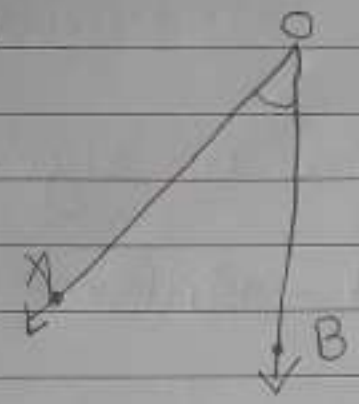
e.) When two rays meet at a common point they form an angle.

f) Two arms of an angle meet at the vertex of the angle.

Date: _____ Page: _____

2) Name the angles in three different ways. Also, name the different parts for each angle.

a)

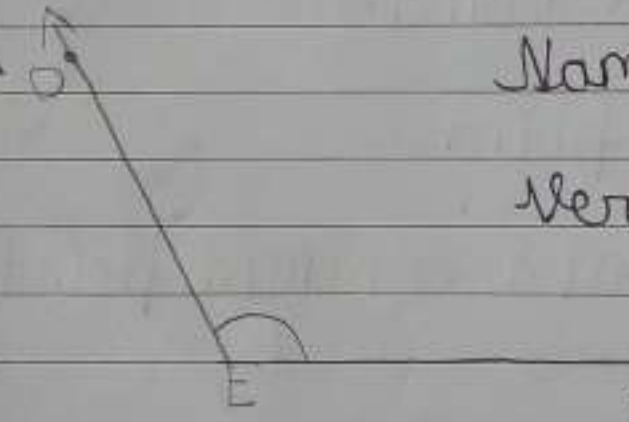


Name = ∠AOB, ∠BOA, ∠O

Vertex = O

Arms = $\overrightarrow{OA}$, $\overrightarrow{OB}$

b)

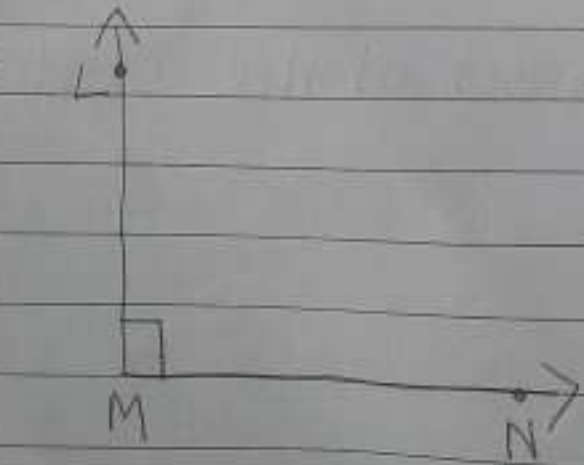


Name = ∠DEF, ∠FED, ∠E

Vertex = E

Arms = $\overrightarrow{DE}$, $\overrightarrow{EF}$

c)



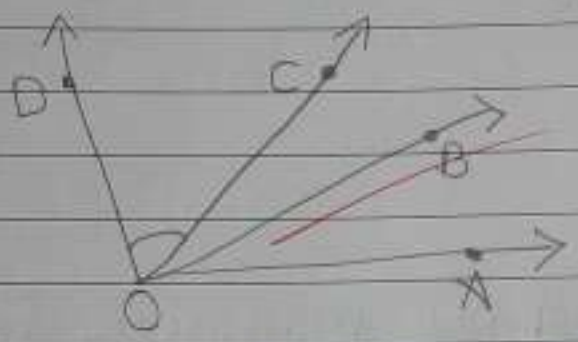
Name = ∠LMN, ∠NML,

Vertex = M

Arms = $\overrightarrow{LM}$, $\overrightarrow{MN}$

Date: _____ Page: _____

3) Name the angle shaded in pink in the given diagram. Also, name the vertex and the arms of the angle.



Name = $\angle DOC, \angle COD, \angle O$

Vertex = O

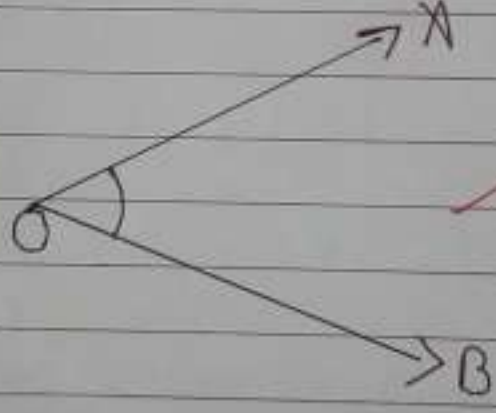
Arms = $\overrightarrow{DO}, \overrightarrow{CO}$

15/10/19 Date: Page: C.W

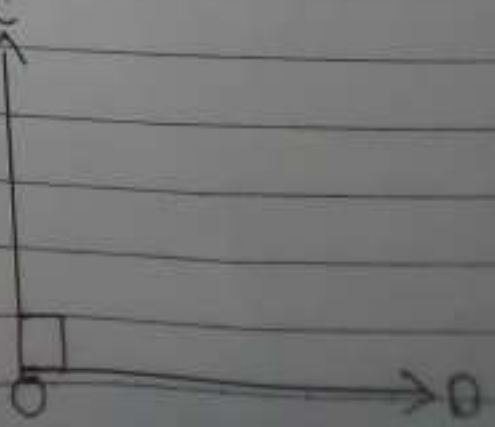
Types of angles

1.) Zero angle → When no angle is formed between two arms, they are called zero angle.

2.) Acute angle → An angle whose measure is less than 90° is called ~~act~~ acute angle.

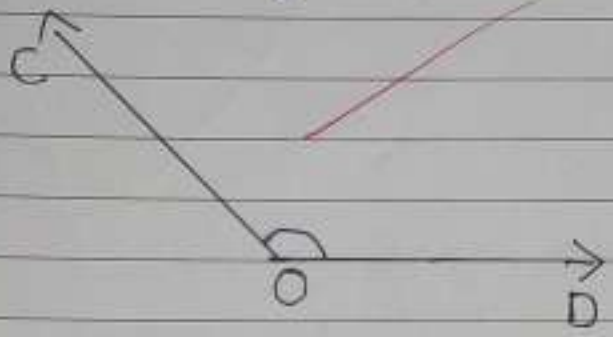


3.) Right angle → An angle whose measure is 90° is called right angle.

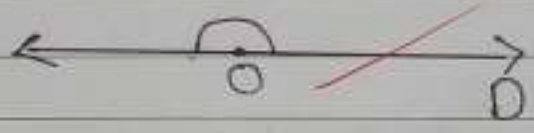


Date: _____ Page: _____

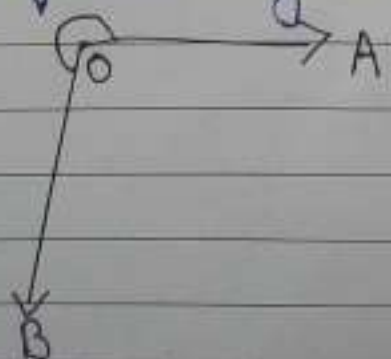
4.) Obtuse angle → An angle whose measure is more than 90° and less than 180° is called Obtuse angle.



5.) Straight angle → An angle whose measure is 180° is called straight angle.



6.) Reflex angle → An angle whose measure is more than 180° but less than 360° is called reflex angle.



Date: _____ Page: _____

⑦ Compelete angle → An angle whose measure is 360° is called compelete angle:

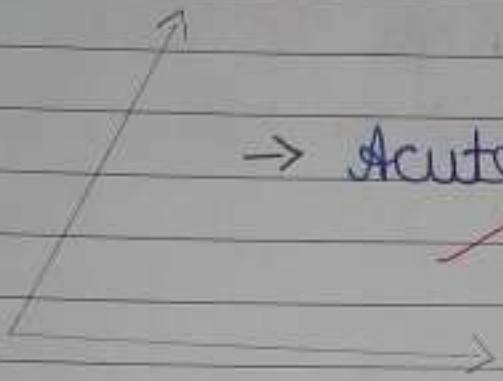
17/10/19

Date: Page:

C.W

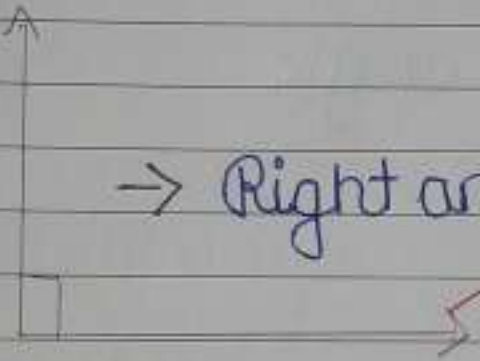
Ex → 9b

1) a)



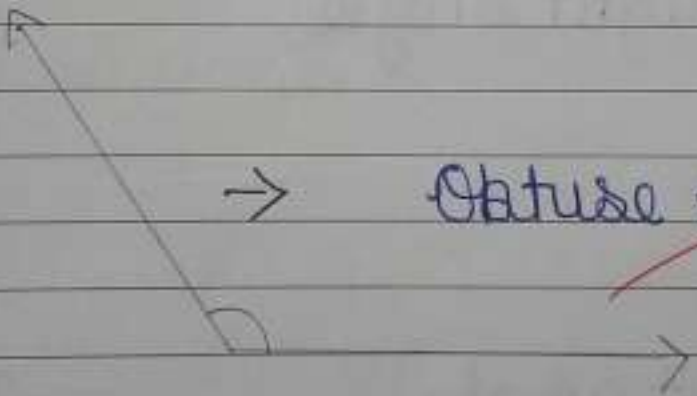
→ Acute angle

b)



→ Right angle

c)



→ Obtuse angle

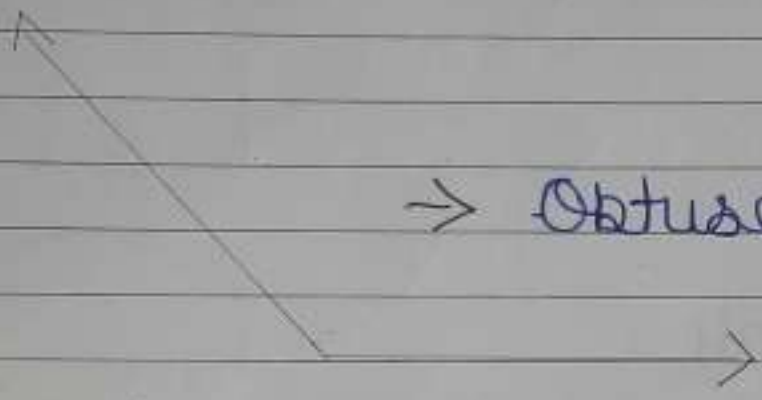
d)

→ Straight angle

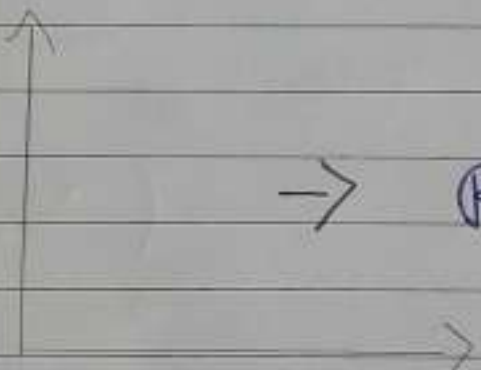
Date: _____ Page: _____

2.) a.)

→ Acute angle

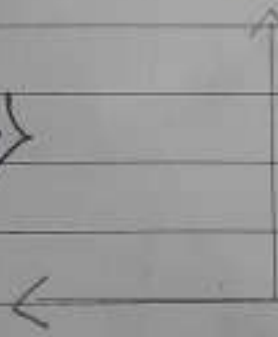


→ Obtuse angle

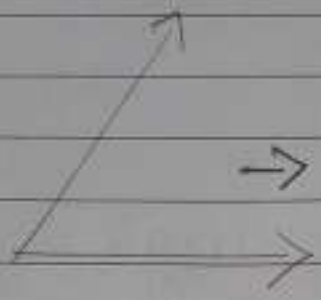


→ Right angle

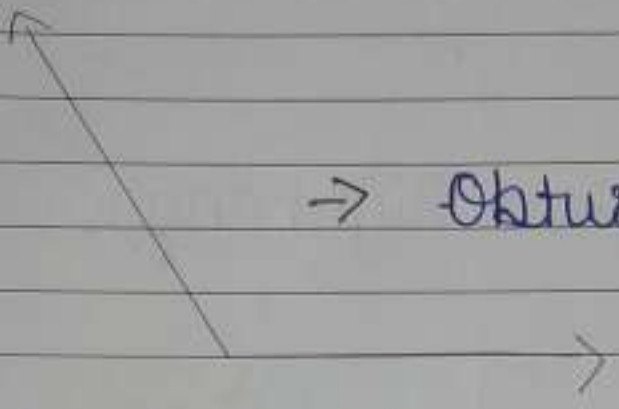
b.)



→ Right angle



→ Acute angle



→ Obtuse angle

4.) a) Right angle

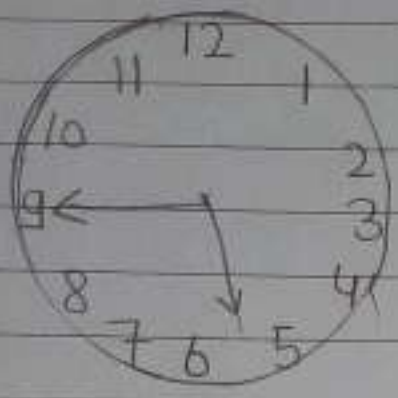
b) Straight angle

c) Right angle

5) a)

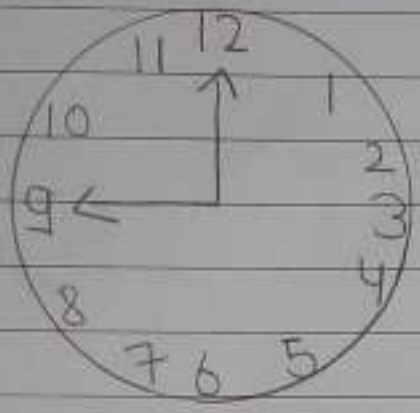
→ 1:00 Acute angle

b)



→ 5:45 Obtuse angle

c)

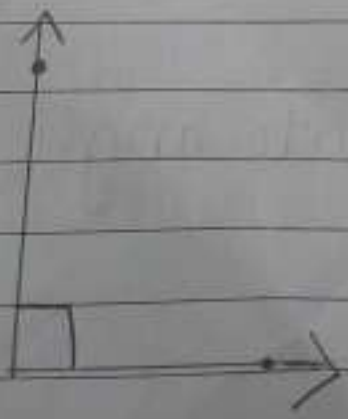


→ 9:00 Right angle

3) a)

→ Acute angle

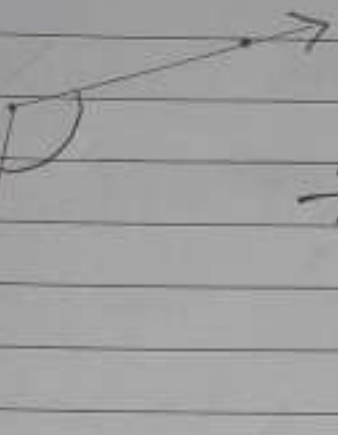
b)



→ Right angle

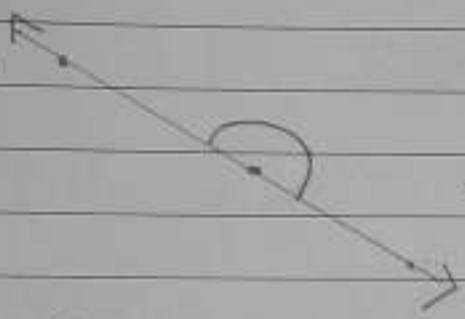
Date: _____ Page: _____

c)



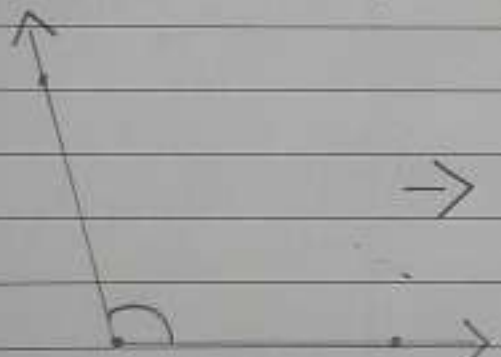
→ Obtuse angle

d)



→ Straight angle

e)



→ Obtuse angle

f)

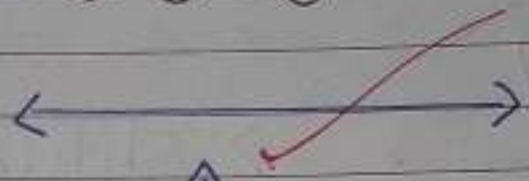
→ Zero angle

18/10/19

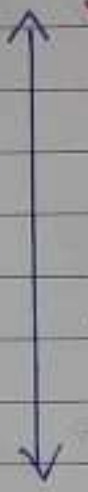
Date: _____ Page: _____

Types of lines

① Horizontal line →



② Vertical line →

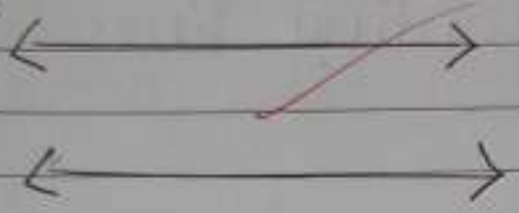


③ Slanting line →

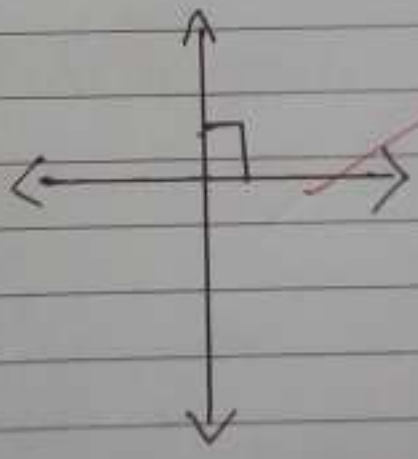
④ Intersecting lines → When two lines cross each other at a point they are called intersecting lines.

Date: _____ Page: _____

(5) Parallel lines → Two lines which are always equidistant from one another they are called parallel lines.



(6) Perpendicular lines → When two lines intersect at 90° they are called perpendicular lines.



18/10/19 Date Page H·W

Ex → 9 d

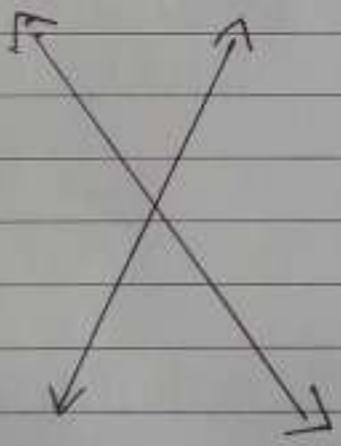
1.) a) The pink line is a horizontal line.

b) The blue line is a slanting line.

2.) a)

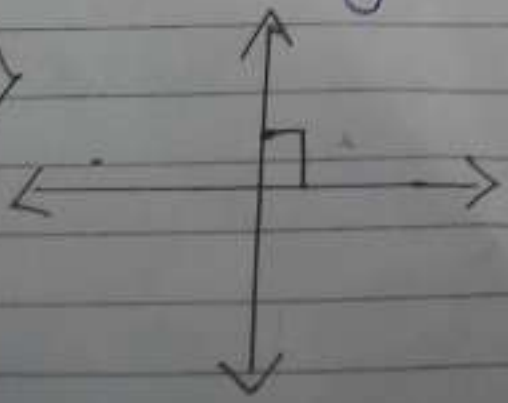
Parallel lines

b)



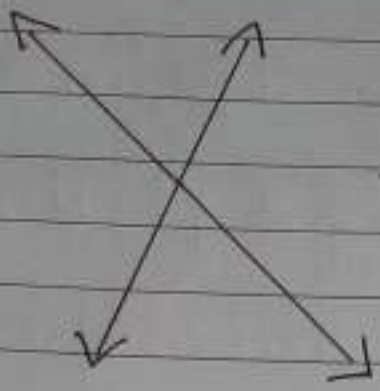
Intersecting lines

c)



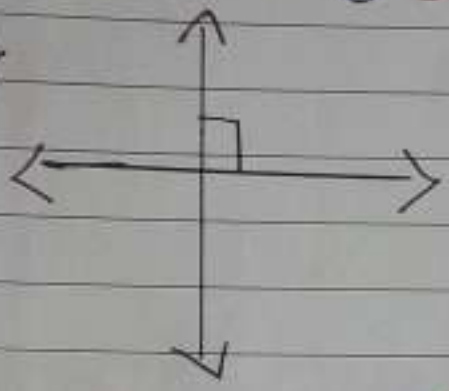
Perpendicular lines

3.) a.)



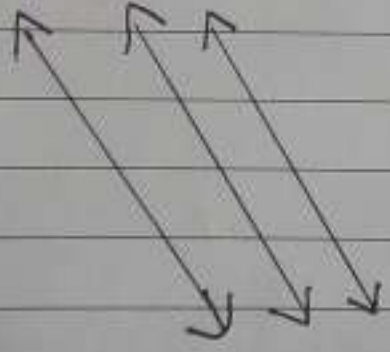
Intersecting lines

b.)



Perpendicular lines

c.)

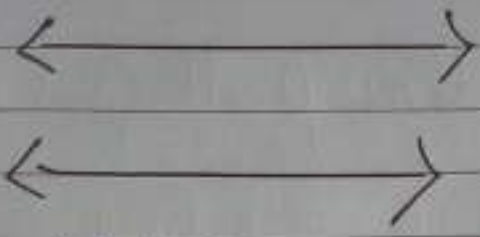


Parallel lines

d.)

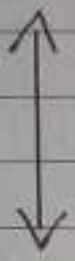
Perpendicular lines

4.) a.)



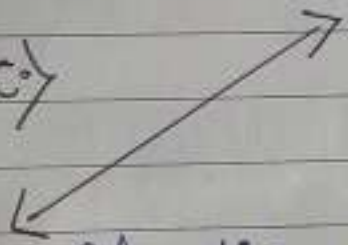
Parallel lines

b.)



Vertical lines

c.)



Slanting line

d.)

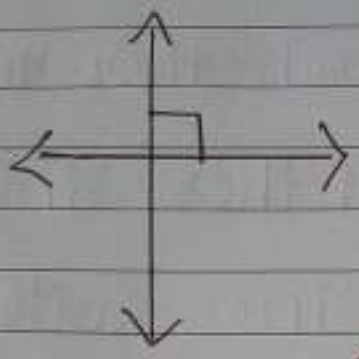
Intersecting line

e.)

Horizontal line

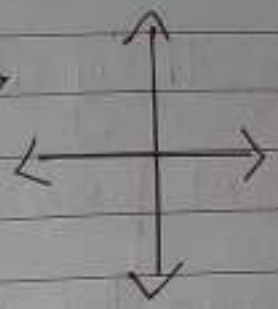
Date: _____ Page: _____

f.)



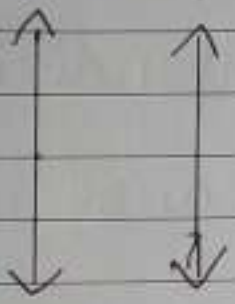
Perpendicular lines

d.)



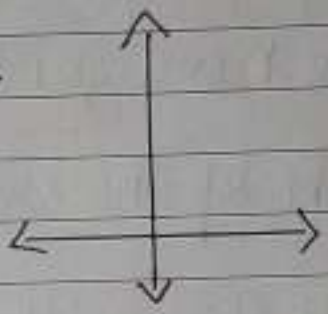
Perpendicular lines

5) a.)



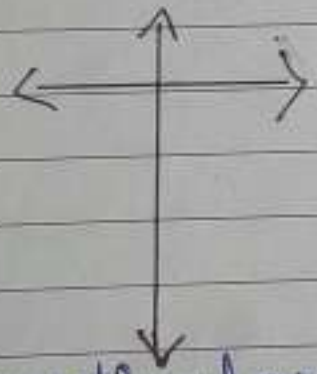
Parallel lines

e.)



Perpendicular lines

b.)



Perpendicular lines

c.)

Intersecting lines

6) a) Yes, they will intersect each other. No, it is not possible to say that these lines are parallel because these lines will intersect each other at some point.

b) Yes, the horizontal line is perpendicular to each of the vertical lines because it is making 90° with both the lines.

c)

Good

Singh

22/10/19