

INTEGRATED

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Class: VIII, MATHEMATICS

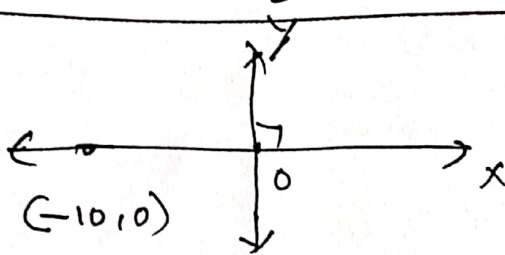
5. INTRODUCTION TO GRAPHS

TEACHING BASIC (JEE MAINS)

01. $(a|b) \in Q_2 \Rightarrow a < 0, b > 0$

Ans: C

02



Ans: B

03 $x + 3 = 2 \Rightarrow x = 2 - 3 = -1$
 $2 - y = 6 \Rightarrow y = 2 - 6 = -4$

Ans: B

04 $-5 - 5 = 3 + x \Rightarrow x = -13$

Ans: B

05 $AB = \sqrt{(-7-10)^2 + (-4-5)^2} = \sqrt{289+81} = \sqrt{370}$
Ans: B

06 Conceptual

Ans: A

07. Rate per unit quantity = $\frac{200}{4} = 250$

Ans: C

08 Conceptual

Ans: A

09. Body is moving at uniform speed

Ans: A

10. Straight line

Ans: A

JEE ADVANCED LEVEL

11.	$(0,0), (-3,0), (2,0)$	Ans: A, B, C ⁽²⁾
12.	$(0,0)$ & X-axis, Y-axis	Ans: A, B
13	<u>Statement I:</u> Conceptual (True) <u>Statement II:</u> Conceptual (True)	Ans: A
14	<u>Statement I:</u> Conceptual (True) <u>Statement II:</u> Conceptual (True)	Ans: A
15	<u>Assertion:</u> Conceptual (True) <u>Reason:</u> Conceptual (True)	Ans: A
16.	<u>Assertion:</u> Conceptual (False) <u>Reason:</u> Conceptual (False)	Ans:
17	$14 + 18 = 32$ books	Ans: C
18	Books read on tuesday + wednesday = $18 + 14 = 32$ Total no. of books = $14 + 18 + 14 + 16 + 20 + 12 + 18$ $= 112$: Ratio = $32 : 112 = 2 : 7$	Ans: A
19	Temperature - Time graph	Ans: B
20.	6 PM	Ans: A
21.	0	Ans: 0
22	0	Ans: 0
23	a) $100 + 90 + 160 + 100 + 140 + 150 + 150 + 150 = 1040$ (S) b) $20 + 40 + 50 + 60 + 70 + 100 + 120 + 120 = 580$ (X) c) 89 - 60 years (V) d) 87 - 88 years (P)	Ans: S, X, V, P

24 a) $c = 80 \times 1$
 $c = 80 \times 1 = 80 (P)$
 b) $c = 80 \times 2$
 $= 160 (Q)$

c) $c = 80 \times 3$
 $= 240 (R)$
 d) $c = 80 \times 4$
 $= 320 (S)$

(3)

Ans: P, Q, R, S

25 a) Conceptual (R) (S)
 b) Conceptual (S)

c) Conceptual (Q)
 d) Conceptual (P)

Ans: R, S, Q, P

LEARNERS TASK (CLUES)

01. X-axis

Ans: A

02. Horizontal axis

Ans: B

03. -3

Ans: A

04. The line parallel to X-axis

Ans: C

05. $|x|$

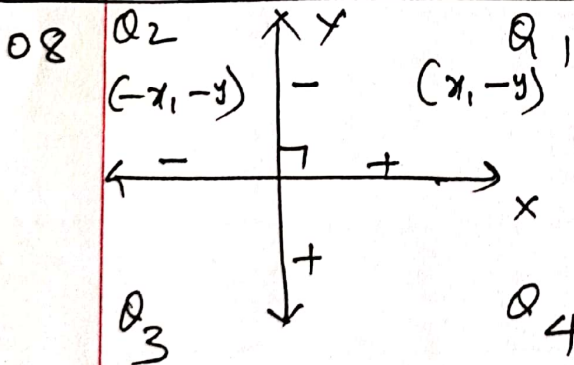
Ans: C

06. $x = 0$

Ans: D

07. $(0, 10) \in X$ -axis, Y -axis

Ans: C



$(-x_1, -y) \in Q_2$

Ans: A

09. $(-3, -1) \in Q_3$

Ans: C

10. NO

Ans: B

JEE MAINS LEVEL

01. TWO

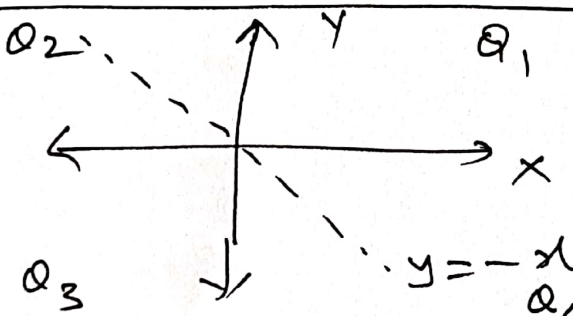
Ans: B

02. $P(3, 4) \in Q_1$

Ans: A

03	0	Ans: A ⁽⁴⁾
04	$(-a, a) \in Q_2$	Ans: B
05	straight line	Ans: A
06	$y = 3(2) \Rightarrow y = 6$	Ans: C
07	$y = 2x - 1$ $x = 0, y = 2(0) - 1 = -1$ $(0, -1)$ $x = 2, y = 2(2) - 1 = 3$ $(2, 3)$	Ans: D
08	$c = 40x \Rightarrow c = 40(5) = 200$	Ans: C
09	$c = 80x$ $c = 80 \times 2 = \text{Rs } 160$	Ans: A
10	$c = 25x \Rightarrow c = 25 \times 0 = 0$	Ans: C

JEE ADVANCED

11	$y \rightarrow$ Ordinate, y -coordinate	Ans: B, C
12		$y = -x$ \Rightarrow passes through $(0, 0)$, II, IV quadrant Ans: A, B, I

13.	<u>Statement I:</u> Conceptual (True) <u>Statement II:</u> Conceptual (True False)	Ans: C
14.	<u>Statement I:</u> $P(6, 4)$ is 6 units from the y -axis (False) <u>Statement II:</u> Conceptual (True)	Ans: D
15.	<u>Assertion:</u> Conceptual (True) <u>Reason:</u> Conceptual (True)	Ans: A

16 Assertion: Conceptual (True)

5

Reason: Conceptual (False)

Ans: C

17 AC is parallel to X-axis and passing through (1, 2)

Ans: D

18 A, B, E \rightarrow collinear & lie on a line

Ans: D

19 Conceptual

Ans: A

20 $(0, 2) \neq$

Ans: B

21. 2

Ans: 2

22 0

Ans: 0

23 a) $(2, 3) \in Q_1 (S)$ | c) $(2, -7) \in Q_4 (r)$
b) $(-9, 3) \in Q_2 (P)$ | d) $(-4, -6) \in Q_3 (q)$

Ans: S, P, r, q

24

a) 15 mt (P)

b) 25 mt (q)

c) 6 sec (r)

d) 4 sec —

Ans: P, q, r —

\Rightarrow THE END \in