

Lecture -06

Physics Will

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Topics to be covered

Slope of straight line

Distance formula





$$\frac{43\xi - 3y = 20}{-43\xi + 10y = 30}$$

$$\frac{+13y = +10}{y - \frac{10}{13}}$$

$$4x = 20 + 34$$

$$4x = 20 + 3 \times \frac{10}{13}$$

$$= 20 + \frac{30}{13}$$

$$= \frac{13}{13} + \frac{30}{13}$$

$$= \frac{260 + 30}{13} = \frac{290}{13}$$



*
$$x = A sin(\omega t + \phi)$$

phase

phase $\Rightarrow \omega t + \phi$

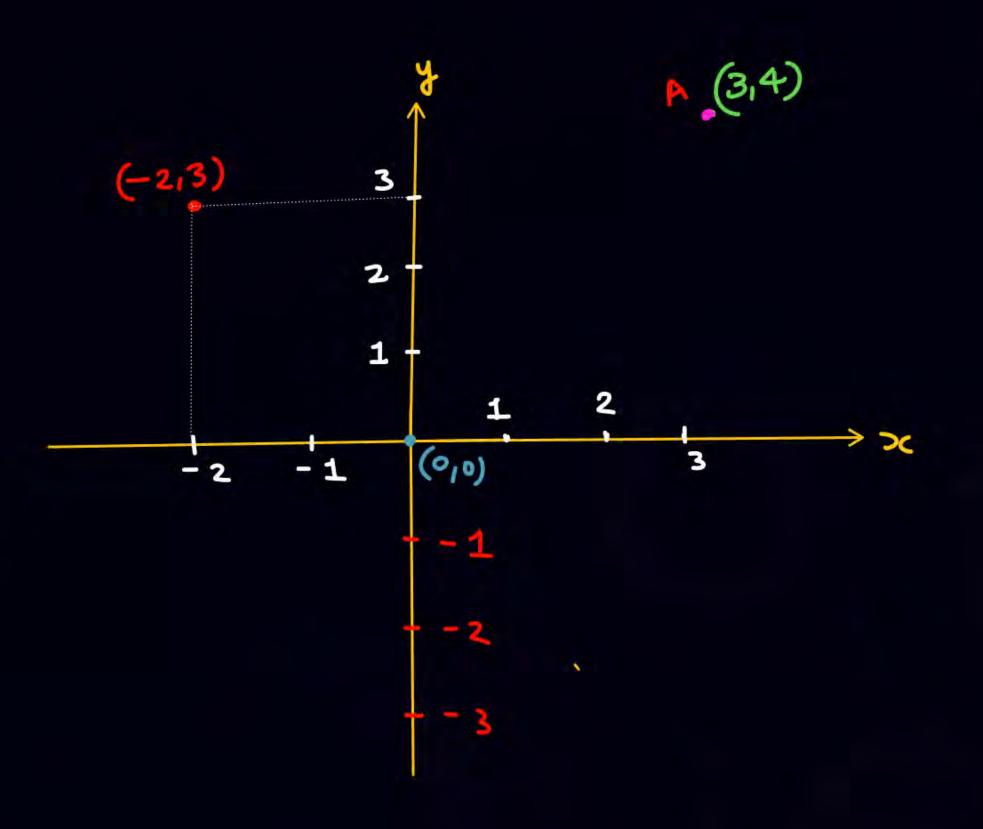
initial phase $= \phi$

$$\times$$
 $x = A \sin (4\pi t + \pi/3)$
phase = $4\pi t + \pi/3$
At $t = 0$, phase = $\pi/3$ = Initial phase

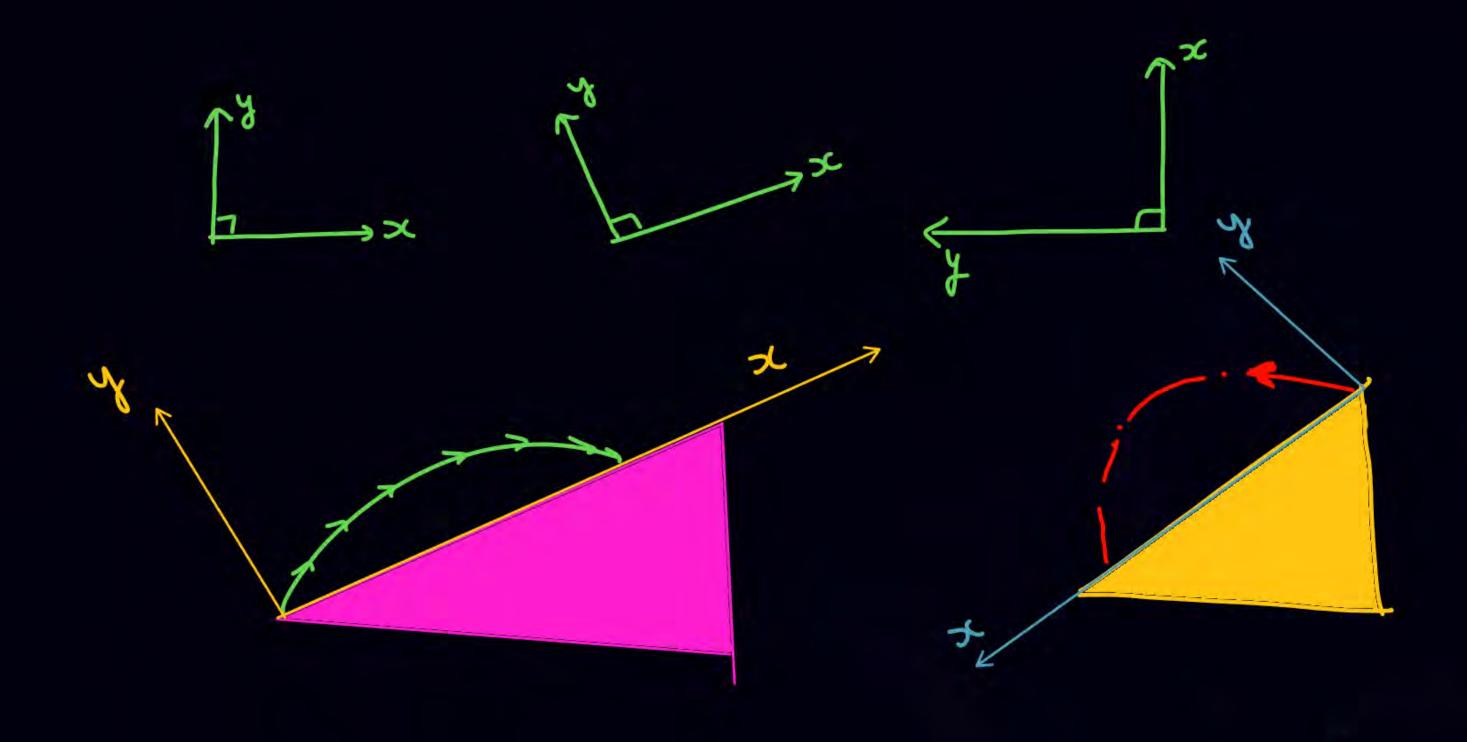
quadrellic. AP GP Log St. line graph Bionomial Exp.











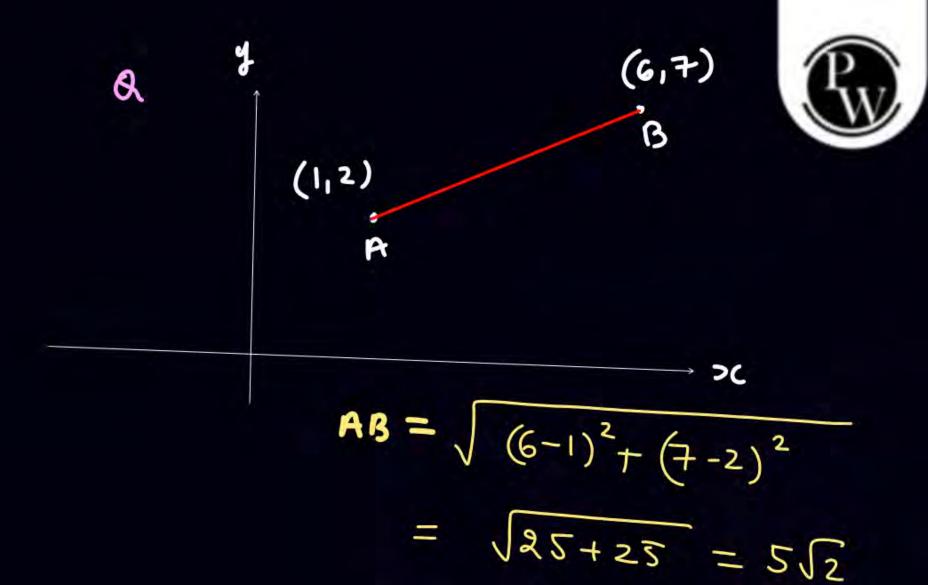
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Distance between two point

AB =
$$\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$$

$$Q$$
 (7,3) $(0,7)$

$$AB = \sqrt{(10-7)^2 + (7-3)^2} = 5$$



$$\Rightarrow \qquad \stackrel{\mathsf{A}}{(x,y,z_1)}$$

$$AB = \sqrt{(3(2-3(1)^2+(7-7)^2+(32-31)^2)^2}$$

A
$$(21314)$$
 $(5,7,9)$

AB =
$$\sqrt{(5-2)^2 + (3-3)^2 + (9-4)^2}$$

= $5\sqrt{2}$

$$\begin{array}{ccc}
+ & & & \text{mid} \\
(x,y_1) & & & \\
(x,y_2) & & \\
\end{array}$$

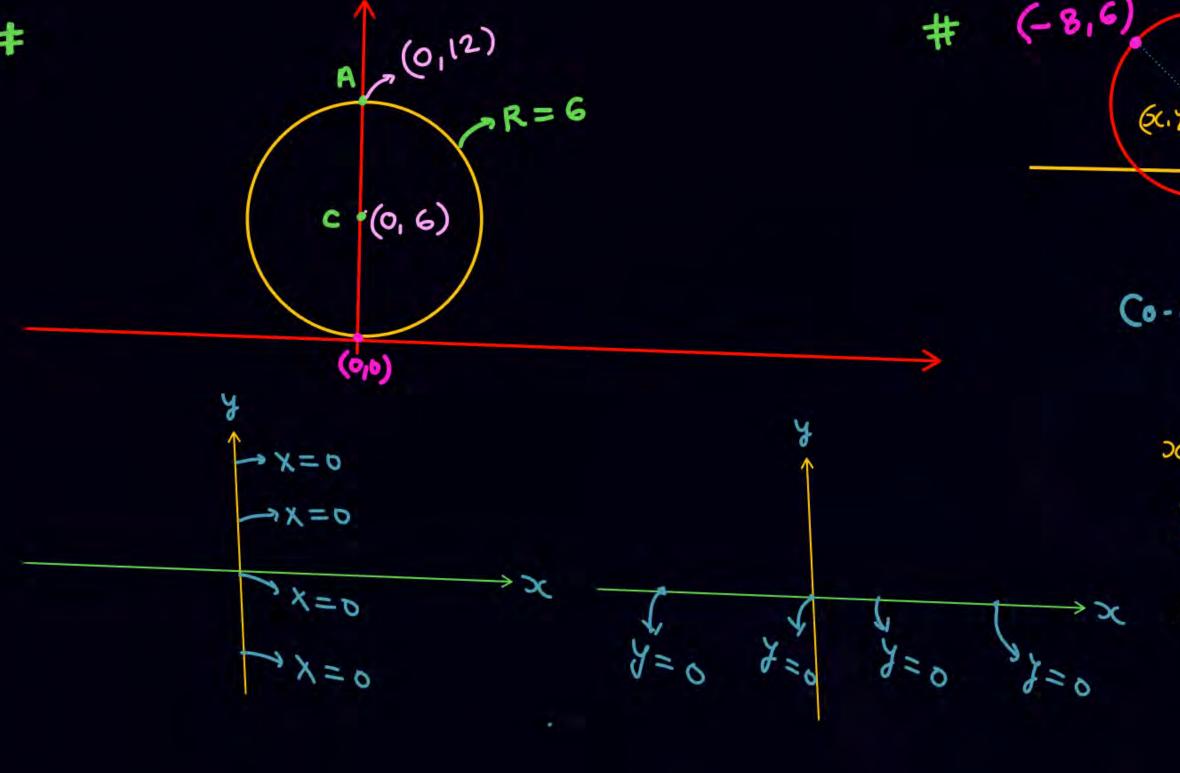
mid point
$$\Rightarrow \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

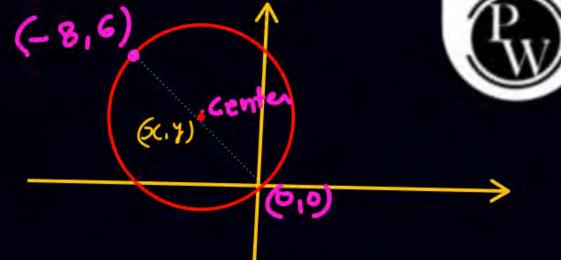
$$C = \left(\frac{4+10}{2}, \frac{6+12}{2}\right)$$

By

$$\frac{1}{9}$$
 $\frac{1}{9}$ $\frac{$

1 7

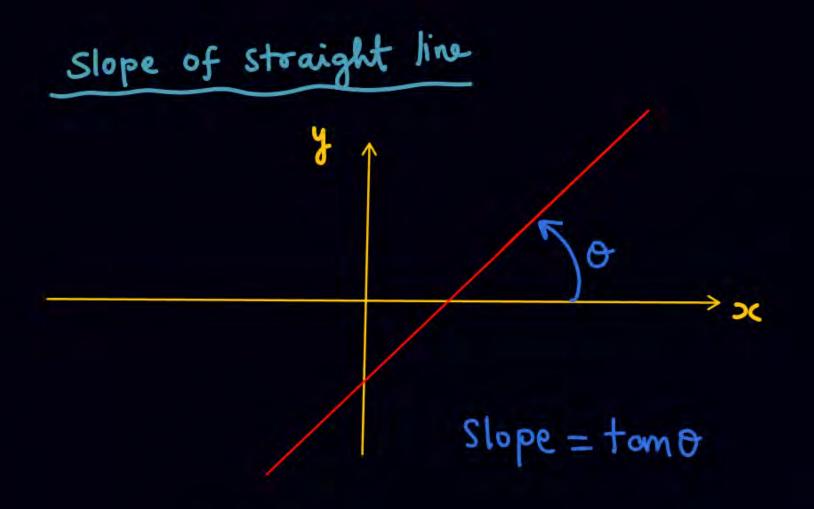


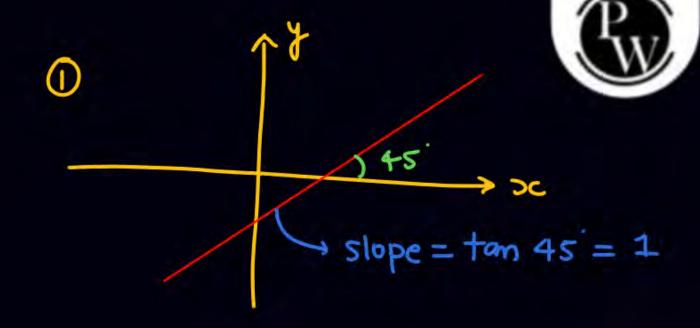


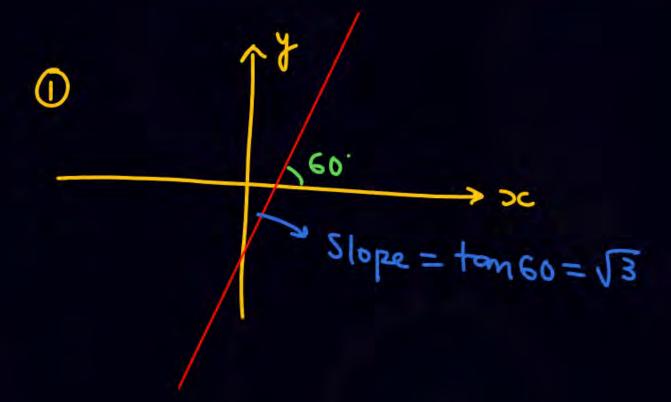
Co-ordinate of Centerwa

$$3c = \frac{0 + (-8)}{2} = -4$$

$$3d = \frac{0 + 6}{2} = 3$$









(SKC)

ण अगर st. line आधी अधूरी है तो उसे

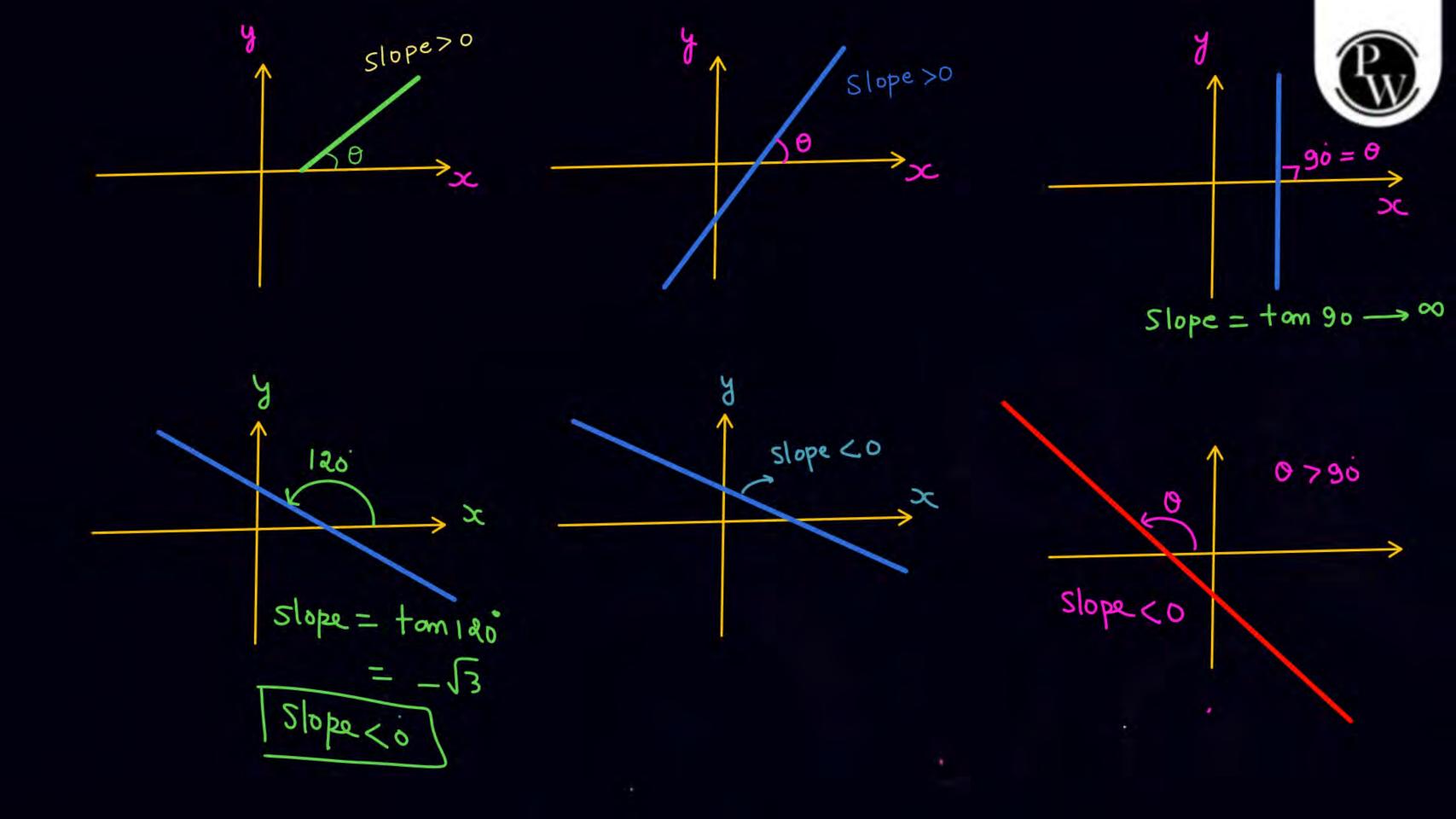
Complete कर जी

E) Slope का मतलव होता है

अगर line में +ve-x-Axis के साथ o angle
वनाया में Slope = tono

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Home Work



Now try this

how many collision will be there if e=1, m (same)

Am (3)

- KPP-03

- KPP-04 (will be uploaded)
today even.

- Revise notes.









