



(Ensure Optimal Education) (Turning Students Into Assets)

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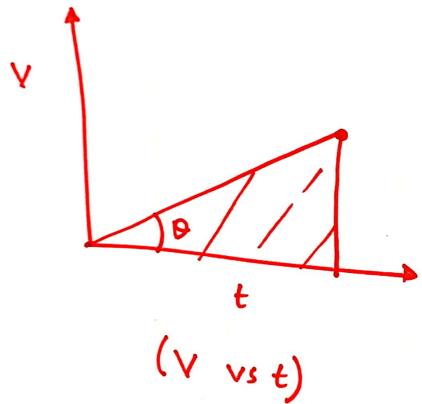
Batch: Clay - 9

Subject:

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Type-5: gar (acceleration)

Care J: (Graph)



: Litat, slope, tand =
$$\frac{V}{t} = a$$

Area = $Vt = S$



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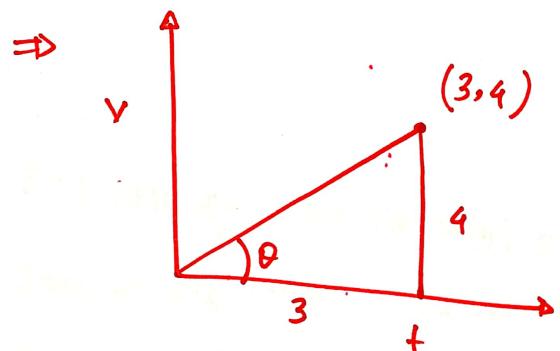
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Ex: V-+ OTH (24-) tolks whith (3,4)

2 (aculuation)

45)

(1) 3121 (displacement)



 $\therefore \alpha = tong = \frac{4}{3} = 1.33 \, ms^{-2}$

5 = Aran = 1 x 4x3 = 6 m

4



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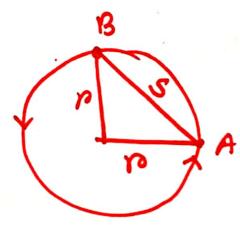
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$$1. S = \sqrt{r^{\nu} + r^{\nu}} = \sqrt{2r^{\nu}} = r\sqrt{2}$$

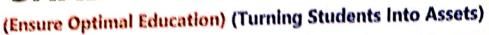
Cave II 8

Ex: (317) 1753 (35) (Velocity) 2mg 2(5)
2min 2 3/8 7072- 12mg 2- Barts

 $2t\pi = \frac{2\pi}{4} = \frac{12-2}{2x}$

= 0.0834 m = 2







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Type-6: 51000 sunta 37: (Egn of motion)

Dynamic coordinate: (SIDIT 1211124)

Cave I:

1. V=u+at:

u t v

U= OMMONT (initial velocity)

V = The (ent (final a)

a= acceleration (227)

t = 3AAT (time)



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$$\Delta \alpha = \frac{\Delta v}{t}$$





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Case II:
$$S = \left(\frac{V+U}{2}\right) +$$

= displacement

here, >13(15),
$$\nabla = \frac{V+u}{2}$$

$$\vec{\cdot} = \frac{5}{t}$$

$$\Rightarrow S = \left(\frac{V + u}{2}\right) + w$$



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$$\vec{v} = \frac{V + u}{2}$$

Now,
$$\overline{V} = \frac{S}{t}$$

$$\Rightarrow S = \left(\frac{V+u}{2}\right) +$$

$$\Rightarrow S = \left(\frac{u + at + u}{2}\right) +$$

$$\Rightarrow S = \left(\frac{2u + at}{2}\right) +$$







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$$\Rightarrow$$
 S= $\left(\frac{2u}{2} + \frac{at}{2}\right)t$



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$$\therefore \nabla = \frac{\nabla + U}{2}$$

$$\Rightarrow 5 = \left(\frac{V+U}{2}\right) + -0$$

$$a = \frac{V - u}{t}$$

$$\Rightarrow t = \frac{V - u}{c}$$







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(D) र र अंग्रेस वर्षायः

$$S = \left(\frac{V+u}{2}\right) \cdot \left(\frac{V-u}{a}\right).$$

$$\Rightarrow S = \frac{(V+u)(V-u)}{2a}$$

$$\Rightarrow S = \frac{\sqrt{-u^{\prime}}}{2a}$$

रिष्ठे अक्यागः u=0 : V= 2as

ZAMSOT, a=fixed ; Vas