



VIDYAPEETH

BATCH CODE: 14-YN302MA

Subject Name – PHYSICS

Chapter Name – mathematical tools



Lecture No. – 02

By – PRINCE KUMAR SIR



Today's Goal

Subtopic



graphs

Subtopic



Differentiation



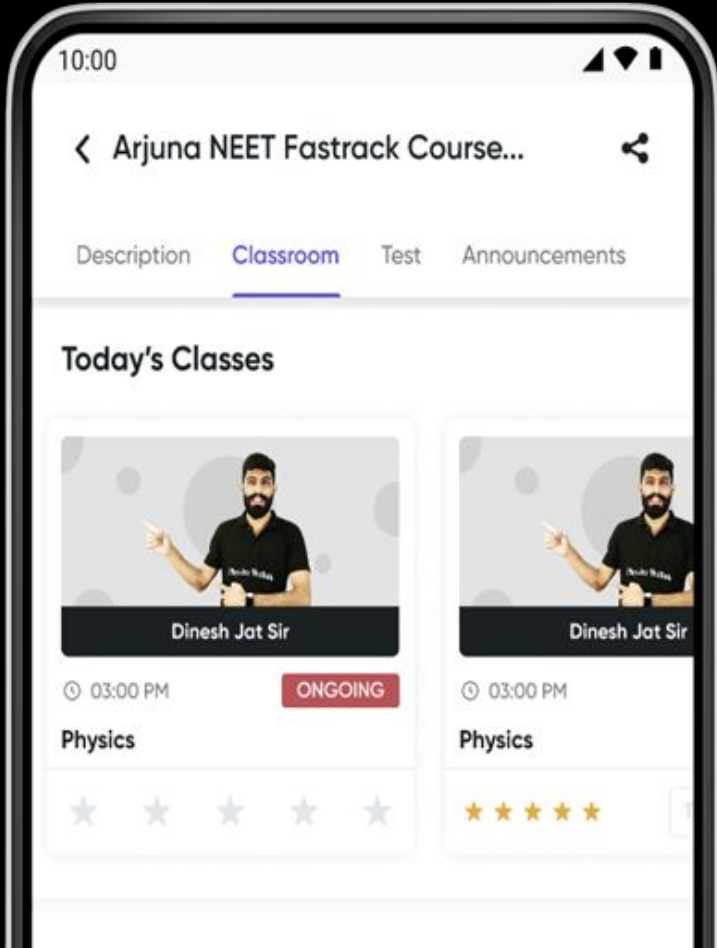





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Solve the DPP and check Solution



“SCAN” to join our “TELEGRAM” channel

VIDYAPEETH 

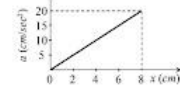
WORK, POWER AND ENERGY

DPP-1 (JAP/046)

[Introduction, Definition of work, work done by constant force, Area under force-displacement curve]

1. A particle moves from position $\vec{r}_1 = 3\hat{i} + 2\hat{j} - 6\hat{k}$ to position $\vec{r}_2 = 14\hat{i} + 13\hat{j} + 9\hat{k}$ under the action of force $4\hat{i} + \hat{j} + 3\hat{k}$ N. The work done by this force will be

(A) 100 J
(B) 50 J



(A) 8×10^{-2} joules
(B) 16×10^{-2} joules
(C) 4×10^{-4} joules

Thank You!!!!

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