

01. দুটি টেল প্রয়োজনে নিচের্ভূত বিবর থেকে অতিক্রম করে সরবরাহ করুন। সরবরাহে 400m ও 800m। এর মধ্যের বেশ কোন টেলের চিহ্ন। টেল দুটি প্রয়োজনে 10s ও অতিক্রম করে। কারণ ১ম টেলের পরিবেশ করা এবং টেলের অতিক্রম করা।

Solve:

$$\text{সরবরাহ} = (400 + 500)\text{m} = 900\text{m}$$

$$\text{একটির প্রয়োজন অতিক্রম বেগ} = u + 2u$$



$$\therefore \frac{900}{3u} = \text{সরবরাহ}$$

$$\Rightarrow \frac{900}{3u} = 10$$

$$\Rightarrow u = 30$$

$$\therefore ১ম টেলের বেগ = 30 \text{ m s}^{-1}$$

$$\therefore ২য় টেলের বেগ = 60 \text{ m s}^{-1}$$

02. $y = x^4 + 2x^3 - 3x^2 - 4x + 4$ ফাংশনটি কেন্দ্র বেগের ব্যবহারে হ্রাস প্রাপ্ত এবং কেন্দ্র বেগের ব্যবহারে বৃদ্ধি প্রাপ্ত করা ক্ষেত্রে কর। y -এর পরিষ্কার এবং সর্পিলাকার বের কর।

সময়ে,

$$y = x^4 + 2x^3 - 3x^2 - 4x + 4$$

$$\frac{dy}{dx} = 4x^3 + 6x^2 - 6x - 4 = 2(x+2), (2x+1), (x-1)$$

$$\therefore \frac{dy}{dx} = 0, x = -2, -\frac{1}{2}, 1$$

$$\text{ক্ষেত্র } x < -2, \text{ এবং } \frac{dy}{dx} = 2(-)(-)(-) = - \text{ এবং } y \text{ গ্রুস প্রাপ্ত।}$$

$$\text{ক্ষেত্র } -2 < x < -\frac{1}{2} \text{ এবং } \frac{dy}{dx} = 2(+)(-)(-) = + \text{ এবং } y \text{ গ্রুস প্রাপ্ত।}$$

$$\text{ক্ষেত্র } -\frac{1}{2} < x < 1 \text{ এবং } \frac{dy}{dx} = 2(+)(+)(-) \text{ এবং } y \text{ গ্রুস প্রাপ্ত।}$$

$$\text{ক্ষেত্র } x > 1, \text{ এবং } \frac{dy}{dx} = 2(+)(+)(+) = + \text{ এবং } y \text{ গ্রুস প্রাপ্ত।}$$

$$\text{সুরক্ষা: } x < -2, -\frac{1}{2} < x < 1 \text{ এবং } y \text{ গ্রুস প্রাপ্ত।}$$

$$\text{এবং } -2 < x < -\frac{1}{2} \text{ এবং } x > 1 \text{ এবং } y \text{ গ্রুস প্রাপ্ত।}$$

$$\text{অবশ্য, ক্ষেত্র } x = -2, \text{ এবং } \frac{dy}{dx} \text{ এর চিহ্ন } (-ve) \text{ এবং } (+ve) \text{ এর পরিপর্যন্ত হয়, কাজেই } x = -2 \text{ শিল্পে } y \text{ এর পরিপর্যন্ত ক্ষেত্রে এবং সর্পিলাকার} = 0$$

$$\text{ক্ষেত্র } x = 1, \text{ এবং } \frac{dy}{dx} \text{ এর চিহ্ন } (-ve) \text{ থেকে পরিপর্যন্ত হয় } (+ve) \text{ হয়, কাজেই } x = 1 \text{ শিল্পে } y \text{ এর পরিপর্যন্ত ক্ষেত্রে এবং সর্পিলাকার} = 0$$

$$\text{ক্ষেত্র } x = -\frac{1}{2}, \text{ এবং } \frac{dy}{dx} \text{ এর চিহ্ন } (+ve) \text{ থেকে } (-ve) \text{ এর পরিপর্যন্ত হয়। কাজেই } x = -\frac{1}{2} \text{ শিল্পে } \frac{dy}{dx} \text{ এর পরিপর্যন্ত ক্ষেত্রে এবং সর্পিলাকার} = 0$$

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W. J. Linden

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