

BUET Admission Test 2011-2012
Mathematics (written)

- 01.* যদি কোন সমবাহু ত্রিভুজের বাহু প্রতি সেকেন্ডে $\sqrt{3}$ সে.মি. এবং ক্ষেত্রফল প্রতি সেকেন্ডে 12 বর্গ সে.মি. বৃদ্ধি পায়, তবে সমবাহু ত্রিভুজটির বাহুর দৈর্ঘ্য নির্ণয় কর।

Solve: যদি, বাহুর দৈর্ঘ্য a

$$\text{ক্ষেত্রফল, } A = \frac{\sqrt{3}}{4} a^2$$

$$\text{এখন, } \frac{da}{dt} = \sqrt{3}; \quad \frac{dA}{dt} = \frac{\sqrt{3}}{4} \times 2a \times \frac{da}{dt} \Rightarrow 12 = \frac{\sqrt{3}}{2} \times a \times \sqrt{3} \Rightarrow a = 8 \text{ cm}$$

02. একটি কেলসার্টী এক স্টেশন হতে ছেড়ে 4 মিনিট পর 2 km দূরে অবস্থিত অপর স্টেশনে প্যামে। গাড়িটি তার গতিপথের প্রথমার্ধে x সমত্বরণে এবং দ্বিতীয়ার্ধে y সমমন্দনে চললে $\frac{1}{x} + \frac{1}{y}$ এর মান নির্ণয় কর।

Solve: 

$$\text{এখানে, } S_1 = \frac{0 + V}{2} \times t_1 \Rightarrow S_1 = \frac{V}{2} t_1 \quad \text{একই } S_2 = \frac{V + 0}{2} \times t_2 \Rightarrow S_2 = \frac{V}{2} \times t_2$$

$$\therefore S_1 + S_2 = \frac{V}{2} (t_1 + t_2) \Rightarrow 2 = \frac{V}{2} \times 4 \Rightarrow V = 1 \text{ km/min}$$

$$\text{আবার, } V = 0 + at_1 \Rightarrow t_1 = \frac{V}{x} \quad \text{একই } 0 = V - yt_2 \Rightarrow t_2 = \frac{V}{y}$$

$$\therefore t_1 + t_2 = \frac{V}{x} + \frac{V}{y} \Rightarrow 4 = 1 \left(\frac{1}{x} + \frac{1}{y} \right) \Rightarrow \frac{1}{x} + \frac{1}{y} = 4$$

03. কোন বিন্দুতে স্থিতিস্থাপক P ও Q ($P > Q$) ভারের দণ্ডি রয়েছে যদি P বস্তুকে দিকের সাথে 60° কোন উপর করে। P বলদিক-কিরণের করণের 30° কোণে Q বস্তুকে দিকের সাথে 30° কোণে স্থিতিস্থাপক করে। নির্ণয় কর।

Solve: $\tan 60^\circ = \frac{Q \sin \alpha}{P + Q \cos \alpha}$ এবং $\tan 30^\circ = \frac{Q \sin \alpha}{2P + Q \cos \alpha}$

$$\therefore \frac{\tan 60^\circ}{\tan 30^\circ} = \frac{2P + Q \cos \alpha}{P + Q \cos \alpha} \Rightarrow 3 = \frac{2P + Q \cos \alpha}{P + Q \cos \alpha}$$

$$\Rightarrow 2P + Q \cos \alpha = 3P + 3Q \cos \alpha \Rightarrow P = -2Q \cos \alpha$$

$$\therefore \tan 60^\circ = \frac{Q \sin \alpha}{-2Q \cos \alpha + Q \cos \alpha} \Rightarrow \sqrt{3} = \frac{Q \sin \alpha}{-Q \cos \alpha} \Rightarrow \tan \alpha = -\sqrt{3} \Rightarrow \alpha = 120^\circ$$



04. যদি $\theta = \frac{\pi}{20}$ হয়, তবে $\cot \theta, \cot 3\theta, \cot 5\theta, \dots, \cot 19\theta$ এর মান নির্ণয় কর।

Solve: $\cot \theta, \cot 3\theta, \cot 5\theta, \cot 7\theta, \cot 9\theta, \cot 11\theta, \cot 13\theta, \cot 15\theta, \cot 17\theta, \cot 19\theta$

$$= \cot \theta, \cot 3\theta, 1, \cot 7\theta, \cot 9\theta, \cot \left(\frac{\pi}{2} + \theta \right), \cot \left(\frac{\pi}{2} + 3\theta \right), (-1), \cot \left(\frac{\pi}{2} + 7\theta \right), \cot \left(\frac{\pi}{2} + 9\theta \right) \left[\because \theta = \frac{\pi}{20} \right]$$

$$= -\cot \theta, (-\tan \theta), \cot 3\theta, (-\tan 3\theta), \cot 7\theta, (-\tan 7\theta), \cot 9\theta, (-\tan 9\theta)$$

$$= -(\cot \theta, \tan \theta), (\cot 3\theta, \tan 3\theta), (\cot 7\theta, \tan 7\theta), (\cot 9\theta, \tan 9\theta) = -1.1.1.1 \left[\because \cot x, \tan x = 1 \right] = -1$$

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