រៀបរៀងដោយ: **ស៊ុំ សំអុន** ☎ ០៩៦៩៤០៥៨៤០

♥ប្រធានលំហាត់♥

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1. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម:

ក. $\lim\limits_{x\to 1}\dfrac{x^2-2x+1}{x^3-x}$; $\dfrac{2}{5}$ **ខ.** $\lim\limits_{x\to 0}\dfrac{x^2-3x+2}{x^2-4}$; $\dfrac{3}{4}$ **គ.** $\lim\limits_{x\to 3}\dfrac{x^2-5x+6}{x-3}$; $\dfrac{2}{3}$

ឃ. $\lim\limits_{x\to 1}\dfrac{x^3-1}{x^3+4x-5}$; 2 **ង.** $\lim\limits_{x\to 1}\dfrac{1-x^2}{x^2+2x-3}$; $\dfrac{1}{2}$ **ច.** $\lim\limits_{x\to 1}\dfrac{x^3+3x+4}{x+1}$; $\dfrac{5}{3}$

2. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម:

ក. $\lim\limits_{x\to 2}\dfrac{\sqrt{x+2}-2}{x^2-4}$ **ខ.** $\lim\limits_{x\to 3}\dfrac{\sqrt{x+6}-3}{x^3-27}$ **គ.** $\lim\limits_{x\to 1}\dfrac{\sqrt{3x+1}-2}{x^3-1}$

ឃ. $\lim\limits_{x\to 0}\dfrac{\sqrt[3]{1+3x^2}-1}{x^2}$ **ង.** $\lim\limits_{x\to 2}\dfrac{\sqrt[3]{x-3}+1}{x+2}$ **ច.** $\lim\limits_{h\to 0}\dfrac{\sqrt[3]{x+h}-\sqrt[3]{x}}{h}$

3. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម:

ក. $\lim\limits_{x\to 1}\dfrac{\sqrt{x}+\sqrt{x+3}-3}{x-1}$ **ខ.** $\lim\limits_{x\to 0}\dfrac{\sqrt{x+1}+\sqrt[3]{x-1}}{x}$ **គ.** $\lim\limits_{x\to 2}\dfrac{\sqrt[3]{x-1}-\sqrt{x-1}}{x-2}$

4. កំណត់តម្លៃនៃចំនួនថេរ a ដើម្បីឲ្យលីមីតខាងក្រោមជាលីមីតចំនួនថេរ:

ក. $\lim\limits_{x\to 1}\dfrac{\sqrt{x+3}-a}{x-1}$ **ខ.** $\lim\limits_{x\to 2}\dfrac{\sqrt{x+a}-1}{x-2}$ **គ.** $\lim\limits_{x\to 0}\dfrac{\sqrt{x^2+ax}-1}{x^2-1}$

5. កំណត់តម្លៃនៃចំនួនពិត a និង b ដើម្បីឲ្យចំនួនទាំងពីរបំពេញលក្ខខ័ណ្ឌលីមីត:

ក. $\lim\limits_{x\to 2}\dfrac{x^2+ax+2}{x-2}=b$ **ខ.** $\lim\limits_{x\to -1}\dfrac{x^2+ax+b}{x+1}=-3$

6. កំណត់អនុគមន៍ទាំងពីរ ដែលបំពេញលក្ខខ័ណ្ឌលីមីតទាំងពីរខាងក្រោមនេះ:

ក. $\lim\limits_{x\to+\infty}\dfrac{f(x)}{x^2-1}=1$ **ខ.** $\lim\limits_{x\to 1}\dfrac{f(x)}{x+1}=-3$ **គ.**

7. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

ក. $\lim\limits_{x\to\infty}\dfrac{x^2-5x}{x^2-3x+1}$ **ខ.** $\lim\limits_{x\to\infty}\dfrac{x^3+1}{x^4-x^2+1}$ **គ.** $\lim\limits_{x\to+\infty}\dfrac{1+x-3x^3}{1+x^2+3x^3}$

ឃ. $\lim\limits_{x\to\infty}\dfrac{\left(x^2+2\right)\left(2x^3+3\right)}{x^5+1}$ **ង.** $\lim\limits_{x\to\infty}\dfrac{x^5+\left(x+5\right)^5}{x^5+5}$ **ច.** $\lim\limits_{x\to+\infty}\dfrac{\sqrt{x}+\sqrt[3]{x}+\sqrt[4]{x}}{\sqrt{x+1}}$

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