រៀបរៀងដោយ: **ស៊ុំ សំអុន** ☎ ០៩៦៩៤០៥៨៤០

♥ប្រធានលំហាត់♥

លំហាត់

1. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម:

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

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

ឆ. $\lim\limits_{x\to 1}\dfrac{1-x^2}{x^3-x^2+x-1}$ **ជ.** $\lim\limits_{x\to 1}\left(3x^2-4x\right)$ **ឈ.** $\lim\limits_{x\to 1}\dfrac{x^2-1}{x^2-3x+2}$

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. 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.** $\lim\limits_{x\to+\infty}\dfrac{\sqrt{x}+\sqrt[3]{x}+\sqrt[4]{x}}{\sqrt{x+1}}$

7. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

ក. $\lim\limits_{x\to0}\dfrac{\sqrt{x+3}-\sqrt{3}}{x}$ **ខ.** $\lim\limits_{x\to2}\dfrac{x-2}{\sqrt{x^2-2}-\sqrt{2}}$ **គ.** $\lim\limits_{x\to1}\dfrac{\sqrt{x^2+3}-\sqrt{x+3}}{x-1}$

ឃ. $\lim\limits_{x\to4}\dfrac{x^2-16}{\sqrt{x}-2}$ **ង.** $\lim\limits_{x\to2}\dfrac{x^3-8}{\sqrt{2x+5}-\sqrt{x+3}}$ **ច.** $\lim\limits_{x\to0}\dfrac{\sqrt{x^2+1}-1}{x}$

ឆ. $\lim\limits_{x\to1}\dfrac{\sqrt[3]{x}+\sqrt{x}-2}{x-1}$ **ជ.** $\lim\limits_{x\to1}\dfrac{x+5\sqrt{x}-6}{x-4\sqrt{x}+3}$ **ឈ.** $\lim\limits_{x\to3}\dfrac{\sqrt{x+6}-3}{x^3-27}$

8. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

ក. $\lim\limits_{x\to1}\left(\dfrac{1}{1-x}-\dfrac{3}{1-x^3}\right)$ **ខ.** $\lim\limits_{x\to1}\dfrac{x+x^2+x^3-3}{x-1}$ **គ.** $\lim\limits_{x\to1}\dfrac{x^p-1}{x^n-1}$

ឃ. $\lim\limits_{x\to1}\dfrac{x^{2018}-1}{x^{2017}-1}$ **ង.** $\lim\limits_{x\to a}\dfrac{x^n-a^n}{x-a}$ **ច.** $\lim\limits_{x\to2}\dfrac{x^5-32}{x-2}$

ជ. $\lim\limits_{x\to1}\dfrac{x+x^2+x^3+\ldots+x^{2017}-2017}{x-1}$ **ឈ.** $\lim\limits_{x\to1}\dfrac{x+x^2+x^3+\ldots+x^n-n}{x+x^2+x^3+\ldots+x^m-m}$

9. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

ក. $\lim\limits_{x\to+\infty}\left(\sqrt{x^2+1}-x\right)$ **ខ.** $\lim\limits_{x\to-\infty}\left(\sqrt{x^2+x}-x\right)$ **គ.** $\lim\limits_{x\to+\infty}\left(\sqrt{x+\sqrt{x}}-\sqrt{x}\right)$

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

ច. $\lim\limits_{x\to-\infty}\left(\sqrt{x^2-x+1}-\sqrt{x^2+x+1}\right)$ **ជ.** $\lim\limits_{x\to\pm\infty}\left(\sqrt{x^2-2x-1}-\sqrt{x^2+3x+1}\right)$

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