ស្រាត់ស្នំស្នងវិទ្ធ: ២០១៧-២០១៤ រៀមរៀខខោយ: **ઈં** એંધ્રજ્ઞ 🕿 0 6 b હે 6 0 હે d હે 0

രുള്ള

1. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

$$\lim_{x\to 1} \frac{x^2-2x+1}{x^3-x}$$

8.
$$\lim_{x\to 0} \frac{x^2-3x+2}{x^2-4}$$

77.
$$\lim_{x \to 1} \frac{x^2 - 2x + 1}{x^3 - x}$$
 8. $\lim_{x \to 0} \frac{x^2 - 3x + 2}{x^2 - 4}$ **77.** $\lim_{x \to 3} \frac{x^2 - 5x + 6}{x - 3}$

W.
$$\lim_{x \to 1} \frac{x^3 - 1}{x^3 + 4x - 5}$$
 B. $\lim_{x \to 1} \frac{1 - x^2}{x^2 + 2x - 3}$ **C.** $\lim_{x \to 1} \frac{x^3 + 3x + 4}{x + 1}$

$$\lim_{x \to 1} \frac{1}{x^2 + 2x - 3}$$

5.
$$\lim_{x \to 1} \frac{1-x^2}{x^3-x^2+x-1}$$
 5. $\lim_{x \to 1} (3x^2-4x)$ **6.** $\lim_{x \to 1} \frac{x^2-1}{x^2-3x+2}$

ជ.
$$\lim_{x \to 1} (3x^2 - 4x)$$

fi.
$$\lim_{x\to 2} \frac{\sqrt{x+2}-2}{x^2-4}$$
 2. $\lim_{x\to 3} \frac{\sqrt{x+6}-3}{x^3-27}$ **fi.** $\lim_{x\to 1} \frac{\sqrt{3x+1}-2}{x^3-1}$

A.
$$\lim_{x \to 1} \frac{\sqrt{3x+1}-2}{x^3-1}$$

U.
$$\lim_{x\to 0} \frac{\sqrt[3]{1+3x^2}-1}{x^2}$$
 U. $\lim_{x\to 2} \frac{\sqrt[3]{x-3}+1}{x+2}$ **U.** $\lim_{h\to 0} \frac{\sqrt[3]{x+h}-\sqrt[3]{x}}{h}$

1.
$$\lim_{x \to 2} \frac{\sqrt[3]{x-3+1}}{x+2}$$

$$\mathbf{\tilde{U}}.\lim_{h\to 0}\frac{\sqrt[3]{x+h}-\sqrt[3]{x}}{h}$$

គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖ **3.**

fi.
$$\lim_{x \to 1} \frac{\sqrt{x} + \sqrt{x+3} - 3}{x-1}$$
 2. $\lim_{x \to 0} \frac{\sqrt{x+1} + \sqrt[3]{x-1}}{x}$ **fi.** $\lim_{x \to 2} \frac{\sqrt[3]{x-1} - \sqrt{x-1}}{x-2}$

2.
$$\lim_{x \to 0} \frac{\sqrt{x+1} + \sqrt[3]{x-1}}{x}$$

A.
$$\lim_{x \to 2} \frac{\sqrt[3]{x-1} - \sqrt{x-1}}{x-2}$$

កំណត់តម្លៃនៃចំនួនថេរ a ដើម្បីឲ្យលីមីតខាងក្រោមជាលីមីតចំនួនថេរ៖

$$\lim_{x \to 1} \frac{\sqrt{x+3-a}}{x-1}$$

8.
$$\lim_{x\to 2} \frac{\sqrt{x+a-1}}{x-2}$$

77.
$$\lim_{x \to 1} \frac{\sqrt{x+3} - a}{x-1}$$
 2. $\lim_{x \to 2} \frac{\sqrt{x+a} - 1}{x-2}$ **77.** $\lim_{x \to 0} \frac{\sqrt{x^2 + ax} - 1}{x^2 - 1}$

កំណត់តម្លៃនៃចំនួនពិត a និង b ដើម្បីឲ្យចំនួនទាំងពីរបំពេញលក្ខខ័ណ្ឌលីមីត៖

$$\mathbf{n.} \lim_{x \to 2} \frac{x^2 + ax + 2}{x - 2} = b$$

2.
$$\lim_{x \to -1} \frac{x^2 + ax + b}{x + 1} = -3$$

6. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

n.
$$\lim_{x \to \infty} \frac{x^2 - 5x}{x^2 - 3x + 1}$$

2.
$$\lim_{x \to \infty} \frac{x^3 + 1}{x^4 - x^2 + 1}$$

7.
$$\lim_{x \to \infty} \frac{x^2 - 5x}{x^2 - 3x + 1}$$
 2. $\lim_{x \to \infty} \frac{x^3 + 1}{x^4 - x^2 + 1}$ **7.** $\lim_{x \to +\infty} \frac{1 + x - 3x^3}{1 + x^2 + 3x^3}$

W.
$$\lim_{x \to \infty} \frac{(x^2 + 2)(2x^3 + 3)}{x^5 + 1}$$
 W. $\lim_{x \to +\infty} \frac{x^5 + (x + 5)^5}{x^5 + 5}$ **V.** $\lim_{x \to +\infty} \frac{\sqrt{x} + \sqrt[3]{x} + \sqrt[4]{x}}{\sqrt{x + 1}}$

4.
$$\lim_{x \to +\infty} \frac{x^5 + (x+5)^5}{x^5 + 5}$$

$$\mathbf{\tilde{U}}. \lim_{x \to +\infty} \frac{\sqrt{x} + \sqrt[3]{x} + \sqrt[4]{x}}{\sqrt{x+1}}$$

គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖ 7.

n.
$$\lim_{x\to 0} \frac{\sqrt{x+3}-\sqrt{3}}{x}$$

2.
$$\lim_{x\to 2} \frac{x-2}{\sqrt{x^2-2}-\sqrt{2}}$$

គឺ.
$$\lim_{x \to 1} \frac{\sqrt{x^2 + 3} - \sqrt{x + 3}}{x - 1}$$

U.
$$\lim_{x\to 4} \frac{x^2-16}{\sqrt{x}-2}$$

4.
$$\lim_{x \to 2} \frac{x^3 - 8}{\sqrt{2x + 5} - \sqrt{x + 3}}$$

$$\mathbf{\tilde{U}}.\lim_{x\to 0}\frac{\sqrt{x^2+1}-1}{x}$$

83.
$$\lim_{x \to 1} \frac{\sqrt[3]{x} + \sqrt{x} - 2}{x - 1}$$

12.
$$\lim_{x \to 1} \frac{x + 5\sqrt{x} - 6}{x - 4\sqrt{x} + 3}$$

$$\mathbf{W.} \lim_{x \to 3} \frac{\sqrt{x+6} - 3}{x^3 - 27}$$

គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

71.
$$\lim_{x \to 1} \left(\frac{1}{1-x} - \frac{3}{1-x^3} \right)$$
 2. $\lim_{x \to 1} \frac{x + x^2 + x^3 - 3}{x - 1}$

2.
$$\lim_{x \to 1} \frac{x + x^2 + x^3 - 3}{x - 1}$$

Fi.
$$\lim_{x\to 1} \frac{x^p-1}{x^n-1}$$

U.
$$\lim_{x \to 1} \frac{x^{2018} - 1}{x^{2017} - 1}$$
 U. $\lim_{x \to a} \frac{x^n - a^n}{x - a}$

ង.
$$\lim_{x \to a} \frac{x^n - a^n}{x - a}$$

$$\mathbf{\tilde{U}} \cdot \lim_{x \to 2} \frac{x^5 - 32}{x - 2}$$

ជ.
$$\lim_{x \to 1} \frac{x + x^2 + x^3 + ... + x^{2017} - 2017}{x - 1}$$

$$\mathbf{NJ.} \lim_{x \to 1} \frac{x + x^2 + x^3 + \dots + x^n - n}{x + x^2 + x^3 + \dots + x^m - m}$$

គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

$$\mathbf{fi.} \lim_{x \to +\infty} \left(\sqrt{x^2 + 1} - x \right)$$

2.
$$\lim_{x \to -\infty} \left(\sqrt{x^2 + x} - x \right)$$

$$\text{ fi.} \lim_{x \to +\infty} \left(\sqrt{x^2 + 1} - x \right) \qquad \text{ e.} \lim_{x \to +\infty} \left(\sqrt{x^2 + x} - x \right) \qquad \text{ fi.} \lim_{x \to +\infty} \left(\sqrt{x + \sqrt{x}} - \sqrt{x} \right)$$

15.
$$\lim_{x \to +\infty} \left(\sqrt{x^2 + 3x} - \sqrt{x^2 + 1} \right)$$
 15. $\lim_{x \to +\infty} \left(x - \sqrt{x^2 + 3x + 4} \right)$

13.
$$\lim_{x \to +\infty} \left(x - \sqrt{x^2 + 3x + 4} \right)$$

5.
$$\lim_{x \to -\infty} \left(\sqrt{x^2 - x + 1} - \sqrt{x^2 + x + 1} \right)$$

T.
$$\lim_{x \to -\infty} \left(\sqrt{x^2 - x + 1} - \sqrt{x^2 + x + 1} \right)$$
 L. $\lim_{x \to \pm \infty} \left(\sqrt{x^2 - 2x - 1} - \sqrt{x^2 + 3x + 1} \right)$

🕮 សុមសំណាខល្អ 🕮