ស្រាតុសំអូមួរ: ២០៦៨-២០៦៤ រៀមរៀខនោយ: ର୍ଷ୍ଟି ଈ୍ୟଞ୍ଚ 🖀 0 ଚେଟେ ଓ ଓ ଓ ଓ

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രുള

1. គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

$$x^2 - 2x + 1$$
 2  $x^2 - 3x + 2$ 

$$\lim_{x \to 0} \frac{x^3 - 1}{x^3 - 1} \cdot 2 \qquad \text{if } \lim_{x \to 0} \frac{x^3 - 1}{x^3 - 1} \cdot 2$$

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

**U.**  $\lim_{x\to 1} \frac{x^3-1}{x^3+4x-5}$ ; 2 **3.**  $\lim_{x\to 1} \frac{1-x^2}{x^2+2x-3}$ ;  $\frac{1}{2}$  **5.**  $\lim_{x\to 1} \frac{x^3+3x+4}{x+1}$ ;  $\frac{5}{3}$ គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

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

$$x \to 2 \qquad x^2 - 4$$
111  $\lim_{x \to 2} \frac{\sqrt[3]{1 + 3x^2} - 1}{x^2}$ 

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

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

គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

**n.** 
$$\lim_{x \to 1} \frac{\sqrt{x + \sqrt{x + 3} - 3}}{x - 1}$$

**17.** 
$$\lim_{x \to 1} \frac{\sqrt{x} + \sqrt{x+3} - 3}{x-1}$$
 **2.**  $\lim_{x \to 0} \frac{\sqrt{x+1} + \sqrt[3]{x-1}}{x}$  **17.**  $\lim_{x \to 2} \frac{\sqrt[3]{x-1} - \sqrt{x-1}}{x-2}$ 

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

 $oldsymbol{4.}$ ) កំណត់តម្លៃនៃចំនួនថេរ $_a$ ដើម្បីឲ្យលីមីតខាងក្រោមជាលីមីតចំនួនថេរ៖

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

$$8. \lim \frac{\sqrt{x+a}-1}{}$$

**17.** 
$$\lim_{x \to 1} \frac{\sqrt{x+3}-a}{x-1}$$
 **2.**  $\lim_{x \to 2} \frac{\sqrt{x+a}-1}{x-2}$  **37.**  $\lim_{x \to 0} \frac{\sqrt{x^2+ax-1}}{x^2-1}$ 

កំណត់តម្លៃនៃចំនួនពិត a និង b ដើម្បីឲ្យចំនួនទាំងពីរបំពេញលក្ខខ័ណ្ឌលីមីត៖

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

**17.** 
$$\lim_{x \to 2} \frac{x^2 + ax + 2}{x - 2} = b$$
 **2.**  $\lim_{x \to 1} \frac{x^2 + ax + b}{x + 1} = -3$ 

កំណត់អនុគមន៍ទាំងពីរ ដែលបំពេញលក្ខខ័ណ្ឌលីមីតទាំងពីរខាងក្រោមនេះ៖

**7.** 
$$\lim_{x \to +\infty} \frac{f(x)}{x^2 - 1} = 1$$
 **2.**  $\lim_{x \to 1} \frac{f(x)}{x + 1} = -3$  **7.**

**8.** 
$$\lim_{x \to 0} \frac{f(x)}{x} = -3$$

គណនាលីមីតនៃអនុគមន៍ពីជគណិតខាងក្រោម៖

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

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

**71.** 
$$\lim_{x \to \infty} \frac{x^2 - 5x}{x^2 - 3x + 1}$$
 **2.**  $\lim_{x \to \infty} \frac{x^3 + 1}{x^4 - x^2 + 1}$  **73.**  $\lim_{x \to +\infty} \frac{1 + x - 3x^3}{1 + x^2 + 3x^3}$ 

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

ង. 
$$\lim \frac{x^5 + (x+5)^5}{x^5 + 5}$$

**5.** 
$$\lim_{x \to +\infty} \frac{\sqrt{x} + \sqrt[3]{x} + \sqrt[4]{x}}{\sqrt{x+1}}$$

8.