



4

6

$$\lim_{U\to 1} \frac{(U^2+1)\cdot(U+1)}{(U^2+U+1)} = \frac{(1^2+1)\cdot(1+1)}{(1^2+1+1)} = \frac{9}{3}$$

$$\lim_{\nu \to 3} \frac{\nu^3 + 3\nu + 3^2}{(\nu^3 + 3^3) \cdot (\nu + 3)} = \frac{3^2 + 3 \cdot 3 + 3^3}{(3^2 + 3^3) \cdot (3 + 3)} = \frac{3}{8 \cdot 9}$$

$$=\frac{1}{(x+1)\cdot(\sqrt{x^2+8}+5)}=\frac{1}{(x+1)\cdot(\sqrt{x^2+8}+3)}=\frac{1}{(x+1)\cdot(\sqrt{x^2+8}+3)}=\frac{1}{(x+1)\cdot(\sqrt{x^2+8}+3)}$$

$$\lim_{3\to -1} \frac{\sqrt{-1}}{\sqrt{2+8}+3} = \frac{-1-1}{\sqrt{1-10^2+8^2+3}} = \frac{-3}{\sqrt{5}+3} = \frac{-3}{3+3} = \frac{-3}{6} = \frac{-7}{3}$$

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39 lim
$$\sqrt{x^2+13^2-4} = \sqrt{x^2+13^2-4} \cdot \sqrt{x^2+13^2+4} - \sqrt{x^2+13^2-4^2}$$

 $x-3$ $\sqrt{x-2}$ $\sqrt{$

$$\frac{-\frac{x^{2}+1\partial-16}{(x-2)\cdot(\sqrt{x^{2}+1\partial}+4)}-\frac{x^{2}-2^{2}}{(x-2)\cdot(\sqrt{x^{2}+1\partial}+4)}-\frac{(x-2)\cdot(x+2)}{(x-2)\cdot(\sqrt{x^{2}+1\partial}+4)}-\frac{(x-2)\cdot(x+2)}{(x-2)\cdot(\sqrt{x^{2}+1\partial}+4)}=$$

$$\frac{1}{100}$$
 $\frac{1}{100}$ $\frac{1}$

$$47$$
 lim $1+x+sin x =) 1+0+sin 0 = 1+0+0 = 1 $x-0 = 3.60 \times 3.0 = 3.1 = 3.1$$

48) lim
$$(x^2-1)(2-c_0 \times) = (0^2-1)\cdot(2-1) = -1\cdot 1 = -1$$
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