$$f(x) = \frac{-3x^2 - 9x + 12}{\sqrt{2x^2 + 6x - 20}}$$

$$\sqrt{0} = 0$$
 => $2 \times ^{2} + 6 \times -20 > 0 / . 2$

$$\times^{2} + 3 \times -10 > 0$$

 $\parallel 2 - 5$
 $(\times -2) (\times +5) > 0$

$$D_f = (-\infty; 3) \cup (2; +\infty)$$

Cosloupnose "postegne ocistorona raolna cesta " $\alpha_1 = 2$, $\alpha_2 = 3$, $\alpha_3 = 4$, $\alpha_4 = 5$, ... Zmorenn Lam Pm=n Zodoni vorozen - moje. an = m², MEN (ag=1, az=4, az=9, ...) Funkce os. woloupnosil an = In mell f(x) = 1 D4 = (0;+00) $\frac{1}{2} \frac{1}{2} \frac{3}{3} \times \frac{1}{2} \frac{1}{3} \frac{1}{2} \frac{3}{3} \frac{1}{2} \frac{1}{3} \frac{$ limita sosloupnosti Fosloupnost dant men (o oo) limiter a, josuel se

demy soslouprosti blizi liborolne blizo 2 a , mo Zvekeju se m.

znoèm lim an = a

Emorne limity: obeene lim $n^{d} = \begin{cases} 0, 4 < 0 \\ 1, 4 = 0 \\ \infty, 4 > 0 \end{cases}$ • lim $n = +\infty$ · lim = 0 Prellin n= 0 Prellin n= 0 Prellin n3 = 0 Very o oxilmolice limit (VOAL) lim antlon = liman tlimbar FOKUD HA lim an lon = (lim an) · (lim bn) | PRAVA' STRANA lim am = lim am lim lon Neddinorone ograzy: B +00 - 0 国 000 - 000 10,000 西土 国 ±00 +00 Pr lim m2 + 6m+2 = lim m2 + lim 6m + lim 2 = +00+00+2 [P] lim m²-6m+2=2+00-00= ?

lim $m^2 - 6m + 2 = \lim_{N \to \infty} m^2 \left(1 - \frac{6m}{m^2} + \frac{2}{m^2}\right) = \frac{1}{NNA} \frac{1}{NESOVISSI}$ VOAL $= \lim_{N \to \infty} m^2 \cdot \lim_{N \to \infty} \left(1 - \frac{6m}{m^2} + \frac{2}{m^2}\right) \frac{VOAL}{3}$ $= \lim_{N \to \infty} m^2 \cdot \left[\lim_{N \to \infty} 1 - \lim_{N \to \infty} \frac{2}{m^2}\right] = 1$ $= 1 + \infty \cdot \left[1 - 6 \cdot 0 + 2 \cdot 0\right] = +\infty \cdot 1 = 1$

4

lim
$$\frac{m+5}{5m-25} = \frac{2}{5m-25}$$

lim $\frac{m+5}{5m-25} = \frac{2}{5m-25}$

lim $\frac{m+5}{5m-25} = \frac{2}{5m-25}$

VYTKNOUT

NA

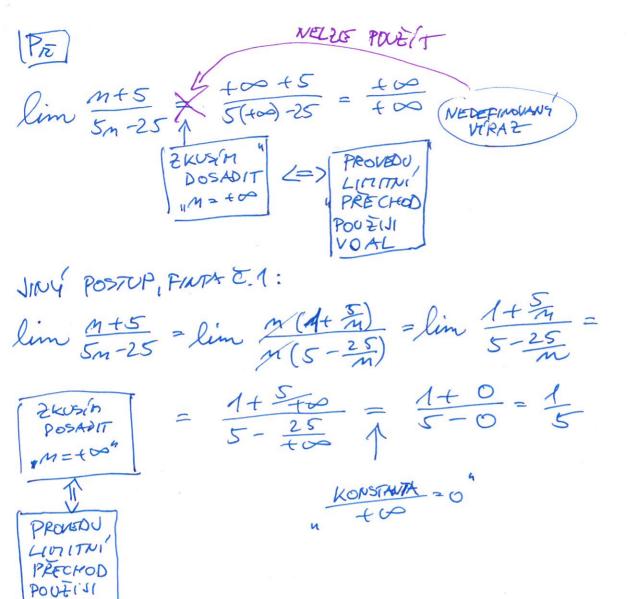
NEWYSSI

HOCUMU

THE LIM $(1+\frac{5}{2m})$

Lim $(5-\frac{2\pi}{2m})$

Lim $(5-\frac{2\pi}{2m$



VOAL

 $\frac{1}{2} \frac{\text{FINTAC.3}}{\text{lim}} \left(\sqrt{m+2} - \sqrt{m} \right) \cdot \frac{1}{2} \frac{\sqrt{m+2} + \sqrt{m}}{\sqrt{m+2} + \sqrt{m}} = \frac{\sqrt{m+2} + \sqrt{m}}{(\sqrt{m+2} + \sqrt{m})} = \frac{\sqrt{m$ = lim \sqrt{m} (m+2-m) = lim $2\sqrt{m}$ $\sqrt{m+2}$ + \sqrt{m} \sqrt $\frac{1}{2} \lim_{\lambda \to 1} \frac{2}{\lambda + 1} = \lim_{\lambda \to 1} = \lim_{\lambda \to 1} \frac{2}{\lambda + 1} = \lim_{\lambda \to 1$ $=\frac{2}{\sqrt{1+0+1}}=\frac{2}{2}=\boxed{1}$ Pr lim $3^{m-1} + 7^m = lim \frac{7^m (\frac{1}{3} \cdot \frac{3^m}{7^m} + 1)}{7^m (\frac{1}{7} + \frac{5^m}{7^m})}$ VOHL \$\frac{1}{2}\$ \frac{1}{2} \lim \frac{1}{2} + \lim \frac{1}{2} = \frac{1}{2} \cdot 0 + 1 = \frac{1}{2} = 7

\lim \frac{1}{7} + \lim \frac{1}{2} \cdot \frac{1}{7} \cdot \frac{1}{7} + 0 = \frac{1}{7} = 7 ZNAME LIMITY lin (3) = 0 13/4/1 lim (5) = 0 (5) 41

I

Pie lim
$$\frac{6n^4 + m}{-9n^3 - 2n^2}$$
 $\frac{6(t\omega)^4 + (t\omega)}{-9(t\omega)^3 - 2(t\omega)^2} = \frac{t\omega}{-\infty}$ NEDEF: $\frac{2k\omega s/h''}{Dosaph'}$ PINTA Č.1 $\frac{m + t\omega}{-9n^3 - 2n^2} = \lim_{n \to \infty} \frac{m^4(6 + \frac{1}{n^3})}{m^4(-9 - \frac{2}{n})} = \lim_{n \to \infty} \frac{m(6 + \frac{1}{n^3})}{(-9 - \frac{2}{n})} = \lim_{n \to \infty} \frac{m(6 + \frac{1}{n^3})}{(-9 - \frac{2}{n})} = \frac{t\omega}{2kos/h} = \frac{t\omega}{-9 - 2} = \frac{t\omega}{-9 - 0} = \frac{6}{9} (t\omega) = \frac{1}{2}$

 $\frac{2kosin}{posapr} = \frac{2}{q} (+\infty) =$

Pie Dobeovaní Dú

 $\lim_{(4-3m)^2} \frac{(n+2)^3 - m(n^2+d)}{(4-3m)^2} = \frac{2}{3}$