lim 
$$\frac{\binom{6}{5}^{2m} + 2\binom{3}{2}^{2m+1}}{\binom{9}{6}^{m} - \binom{11}{10}^{2n-1}} = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 10}} \frac{\binom{3}{2}^{m} + 2\binom{3}{2}^{m}}{\binom{9}{2}^{m} - \binom{11}{10}^{2n-1}} = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 10}} \frac{\binom{3}{2}^{m} - \binom{11}{10}^{m}}{\binom{3}{2}^{m} - \binom{11}{100}^{m}} = \lim_{\substack{1 \text{ lim} \\ 3 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m} - \binom{11}{100}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m} - \binom{11}{100}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m} - \binom{11}{100}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m} - \binom{11}{100}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}}} + 3 = \lim_{\substack{1 \text{ lim} \\ 25 \text{ lim}}} \frac{\binom{3}{2}^{m}}{\binom{3}{2}^{m}} + 3 = \lim_{\substack{1 \text{ lim}$$

2. 
$$f(x) = \frac{1}{2}x^{2} - 4x + 6$$
 ,  $x_{0} = 1$ 

TECNA:

$$f'(x) = x - 4$$
 0.46

$$f'(1) = 1 - 4 = -3$$

$$f(1) = \frac{1}{2} - 4 + 6 = 2, 5 = \frac{1}{2}$$

$$f'(2) = x - 4$$
 0.46

$$f'(3) = x - 4$$
 0.46

$$f'(4) = x - 4$$
 0.46

$$f'(4) = 1 - 4 = -3$$

$$f(1) = \frac{1}{2} - 4 + 6 = 2, 5 = \frac{1}{2}$$

$$f'(4) = x - 4$$
 0.46

Pairiaid Joing a orionia:  $\int_{3}^{3} \int_{3}^{3} \int_{$ 

5) PRUSEZIKY jalan 346] Py = E0 ; = 7/40  $\frac{1}{2x^{2}+x^{2}} = 0 \iff x^{2}+x^{2}=0$  (x+2)(x-1)Px = [-210] Px = [1:0] 128 6) ASTMPTOTY (cellow 2+40)  $\lim_{x \to +\infty} \frac{x^2 + x^{-2}}{2x^{-4}} = \lim_{x \to +\infty} \frac{x^2 + x^{-2}}{2x^2 - 4x} =$ = lin \*(1+ \frac{1}{2} - \frac{1}{2}) = \frac{1}{2} + 0 => \frac{1}{2} \text{MA' V + \infty} \\
\frac{1}{2} + \fra lin (x2+x-2 - 1/2x) = lin x4x-2-x2+2x = 1/2x-4 = lim 3x-2 = lim ×(3-2x) = 2 = 8 20 x->+00 × (2-4x) = 2x-4 = 20  $\lim_{x \to -\infty} \frac{x^2 + x - 2}{2x - 4} = \lim_{x \to -\infty} \frac{x^2 + x - 2}{2x^2 - 4x} =$ =  $\lim_{x \to -\infty} \frac{x'(1+\frac{1}{x}-\frac{1}{x'})}{x^2(2-\frac{1}{x})} = \frac{1}{2} \neq 0$  =)  $\lim_{x \to -\infty} \frac{x'(2-\frac{1}{x})}{x^2(2-\frac{1}{x})} = \frac{1}{2} \neq 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2(2-\frac{1}{x})} = \frac{1}{2} + 0$  =)  $\lim_{x \to -\infty} \frac{1}{x^2($ 三里一人是

7) 
$$f(x) = (2x+1)(2x-4) - (x^2+x-2)(2) =$$

$$= \frac{4x^2 - 8x + 2x - 4}{(2x-4)^2} = \frac{2x^2 - 4x}{2(x-2)^2} = \frac{2x^2 - 8x}{(2x-4)^2} = \frac{2(x-2)^2}{2(x-2)^2}$$

$$= \frac{2x^2 - 8x}{(2x-4)^2} = \frac{2(x^2 - 4x)}{2(x-2)^2} = \frac{x^2 - 4x}{2(x-2)^2} = \frac{x^2 - 4x}{2x^2} = \frac{x^2 - 4$$

10) 
$$f''(x) = (2x-4)(2(x-2)^2) - (x^2-4x)2(x-2) \cdot 2$$

$$= 4(x-2)^3 - 4(x^2-4x)(x-2) = 4(x-2)^4$$

$$= \frac{1}{x-2} - \frac{x^2-4x}{(x-2)^3} = \frac{x^2-4x+4-x^2+4x}{(x-2)^3} = \frac{4}{(x-2)^3}$$

$$= \frac{4}{(x-2)^3} \cdot D_{+} = \mathbb{R} \cdot d_2 = \frac{4}{(x-2)} \cdot \frac{2}{(x-2)^2} \cdot \frac{2}{(x-2)^2} = \frac{4}{(x-2)^2} \cdot \frac{2}{(x-2)^2} \cdot \frac{2}{(x-2)^2} \cdot \frac{2}{(x-2)^2} = \frac{4}{(x-2)^2} \cdot \frac{2}{(x-2)^2} \cdot \frac{2}{(x-$$

