: 215314105 Wim

Kuis 1

$$= \frac{(a+h)^3 - a^3}{2h}$$

$$=\frac{1}{2}(h^2+3ah+3a^2)$$

=
$$\lim_{h\to 0} \left(\frac{1}{2} \left(h^2 + 3ah + 3a^2 \right) \right)$$

$$= \frac{1}{2} \left(0^2 + 3a \cdot 0 + 3a^2 \right) - h = 0$$

$$= \frac{3a^2}{2}$$

$$= \sqrt{4x^2 + x - 2}$$

= X

$$\sqrt{4\chi^2 + \chi} + 2\chi$$

Googgate Paceical

$$= \lim_{X \to \infty} \left(\frac{x}{\sqrt{4x^2 + x + 2x}} \right)$$

$$= \lim_{\chi \to \infty} (1) = 1$$

$$= \lim_{\chi \to \infty} (\sqrt{4 + \frac{1}{\chi} + 2}) \pm 4$$
Diningai de

3 Gran's Gangen Gibik (2,2)
$$y = \sqrt{x+2}$$
When = $\lim_{h \to 0} F(x+h) - F(x)$

$$h \to 0$$

$$\lim_{h \to 0} [\sqrt{(x+h)+2}] - \sqrt{x+2}$$

$$\lim_{h \to 0} \sqrt{x+h+2} - \sqrt{x}$$

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G Greeien fung si y, Pada
$$X = 1$$

$$y = \sqrt{\frac{x}{x+2}}$$

Unsec =
$$F(1+h) - F(1)$$

= $\sqrt{\frac{1}{41+h+2}} - \sqrt{\frac{1}{1+2}}$
= $\sqrt{\frac{1}{3h}} - \sqrt{\frac{1}{3}}$
= $\sqrt{\frac{2-(2+h)}{(3+h)(3)(h)}}$
= $\sqrt{\frac{-h}{(3+h)(3)(h)}}$
= $-\frac{1}{2h+a}$