1.)
$$\frac{4}{8} (K^2 + 3K) = \frac{4}{8} K^2 + \frac{4}{8} 3K$$

$$= \frac{4(4+1) \times (2 \times 4+1)}{6} + 3 \times 4 \frac{(4+1)}{2}$$

$$= \frac{30 + 30}{6}$$

$$= 60 - 30 \text{ awaban a Khir}$$

$$= \frac{1 - \sqrt{12}}{1 - 2^2} = --$$

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3.)
$$\lim_{2u-3i} \frac{1-\sqrt{u}}{1-u^2} = \frac{1}{2\sqrt{u}}$$

$$= \frac{1}{2\sqrt{u}} \times \frac{1}{2u}$$

$$= \frac{1}{4u\sqrt{u}} \times \frac{1}{2u}$$

$$= \frac{1}{4u\sqrt{u}} \times \frac{1}{2\sqrt{u+1}}$$

$$= \frac{1}{2\sqrt{u+1}} = \frac{1}{2\sqrt{u+1}}$$

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4.)
$$\lim_{u \to 1} \frac{u^3 - u^2 - u + 1}{u - v \sqrt{u} + 1} = \frac{3u^2 - v - u - 1}{1 - \frac{1}{\sqrt{a}}}$$

$$= \frac{3u^2 - v - 1}{\sqrt{u} - 1}$$

$$= \frac{(3u^{2}-1u-1)\sqrt{u}}{\sqrt{u}-1}$$

$$= \frac{(3u^{2}-1u-1)\sqrt{u}}{\sqrt{u}-1}$$

$$= \frac{(3u^{2}+u-3u-1)\sqrt{u}}{\sqrt{u}-1}$$

$$= \frac{(u(3u+1)-(3u+1))\sqrt{u}}{\sqrt{u}}$$

- (30+1)-(-(32+1) : 321/2+1 - 3a2+31 = 3(1)?+

$$\frac{1}{2} \lim_{N \to N} \sqrt{3} \frac{1}{2} \frac{1}{$$

4)
$$\lim_{\lambda \to q} \sqrt[3]{2u^3 + 2v - 12} + \lim_{\lambda \to q} \sqrt{2v^2 + 11 - 2u}$$

2) $\lim_{\lambda \to q} \sqrt[3]{3u^3 + 2u + 1} = \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u - 1)}$

$$= \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u - 1)} = \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u - 1)}$$

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$$= \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u + 1)} = \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u - 1)}$$

$$= \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u + 1)} = \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u + 1)}$$

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$$= \sqrt[3]{\lim_{\lambda \to q} (2v^3 + 2u + 1)} = \sqrt[3]{\lim_{\lambda$$

13) I m
$$f(u) = 3$$
, $\lim g(u) = 6$, $\lim (g(u)^{2}) = 3f(u) = -6^{2} - 3(1)$

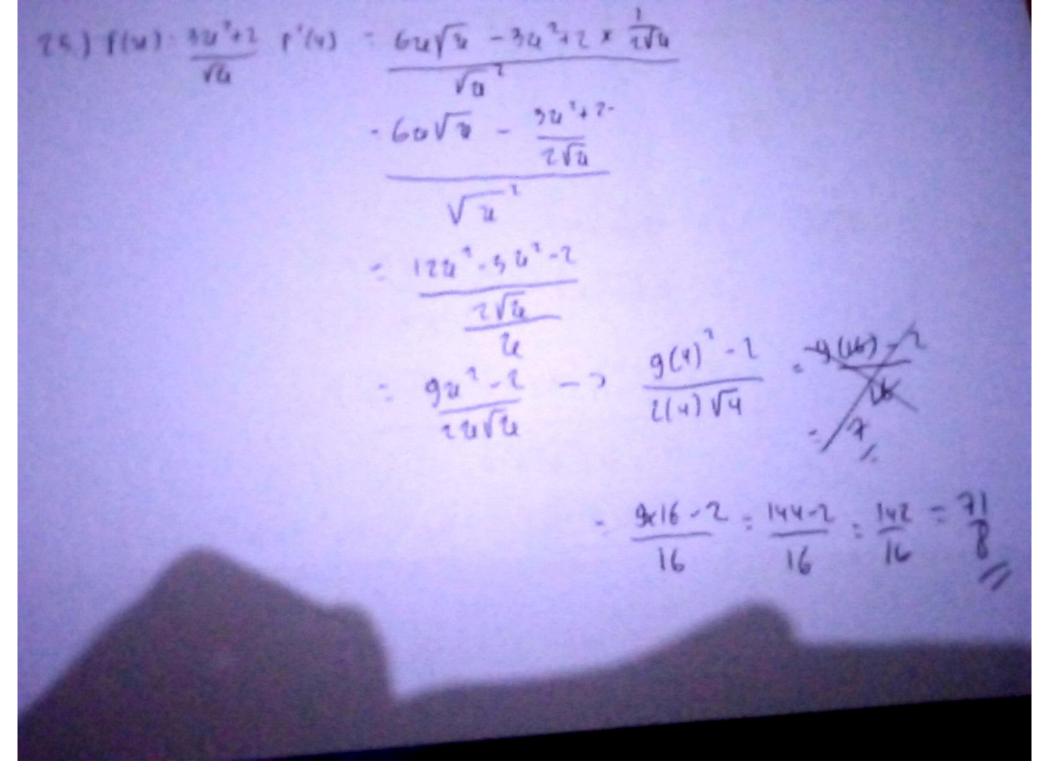
25 - 9

- 16

4-30

 $\frac{u^{3} - 3u^{2} + 6u}{u^{2} + 2u} = \frac{3u^{2} - 6u + 6}{2u + 2}$
 $\frac{3(u)^{2} - 6u + 6}{2u + 2}$

23.) F(0) = 15 · f'(0) = -15 x d (2)



$$= -12u^{3} + 1000^{3}$$

$$= -12u^{3} + 1000^{3}$$

$$= -12u^{5} - 6$$

$$= -12(-1)^{5} - 6$$

$$= -(-12(-1)^{-6})$$

$$= -6$$

$$79.) F(v) = \frac{1}{4v^{2}-3} \cdot F'(v) = \frac{d}{du} (4v^{2}-3) \cdot \frac{d}{(4v^{2}-3)^{2}} \cdot \frac{d}{(4v^{2}-3)^{2}} \cdot \frac{d}{(4u^{2}-3)^{2}} \cdot \frac{d}{(4$$