Math Expression using Latex

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0.1 Exercise 1

Please write down the equation

$$\frac{a^2}{1} + b^2 = 1.c$$

0.2 try this also

$$\sum_{k=0}^{n} k = \frac{n(n+1)}{2}$$

0.3 Exercise 2

$$\Sigma^{(1,2,\ldots,n)}_{p_1<p_2<\ldots,p_{n-k}} \Delta^{p_1 p_2 \ldots p_{n-k}}_{p_1 p_2 \ldots p_{n-k}} \Sigma_{q_1<q_2<\ldots q_k} \begin{vmatrix} a_{q1q1} a_{q1q2} \ldots a_{q1qk} \\ a_{q2q1} a_{q2q2} \ldots a_{q2qk} \\ \ldots\ldots\ldots\ldots\ldots\ldots \\ a_{qkq1} a_{qkq2} \ldots a_{qkqk} \end{vmatrix}$$

0.4 Exercise 3

$$\int_{\Omega} \begin{array}{ccccc} C & \xrightarrow{H_1} & C & \xrightarrow{H_1} & > C \\ \downarrow Pc,3 & & \downarrow Pc,3 & & \downarrow P-c,3 \\ C & \xrightarrow{H_1} & C & \xrightarrow{H_2} & > C \end{array}$$