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## Permutation representation of $S_3$

 **Definition.** Permutation representation of  $S_3$

$$\begin{aligned} S_3 &\curvearrowright \mathbb{F}^3 \\ g(e_i) &\mapsto (e_{g(i)}) \end{aligned}$$

Current note has 0 direct children and 0 total descendants.

- [stretchy](#)
  - [Symmetric group](#)
    - $S_3$ 
      - [Permutation representation of  \$S\_3\$](#)

And it has 2 siblings.

- [stretchy](#)
  - [Symmetric group](#)
    - $S_3$ 
      - [Permutation representation of  \$S\_3\$](#)
      - [Standard representation of  \$S\_3\$](#)