1 | $p(T)$ **def**

Suppose $T \in \mathcal{L}(V)$ and $p \in \mathcal{P}(\mathbb{F})$ is a polynomial given by

$$P(z) = a_0 + a_1 z + a_2 z^2 + \cdots + a_m z^m$$

for $z □ □ $. Then $p(T)$ is the operator defined by

$$p(T) = a_0 I + a_1 T + a_2 T^2 + \cdots + a_m T^m$$