1 | product of polynomials

def

If $p,q\in\mathcal{P}(F)$, then $pq\in\mathcal{P}(\mathbb{F})$ is the polynomial defined by

$$(pq)(z) = p(z)q(z)$$

for $z \in \mathbb{F}$.

1.1 | Axler5.20 Multiplicative Properties of Polynomials

1.1.1
$$|(pq)(T) = p(T)q(T)$$

1.1.2
$$|p(T)q(T) = q(T)p(T)$$

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