

Proposition 1.7: If m is an integer, then $0 + m = m$ and $1 \cdot m = m$.

Proof. Your proof goes here. □

Proposition 1.8: If m is an integer, then $(-m) + m = 0$.

Proof. Your proof goes here. □

Proposition 1.11 (i): If $m, n, p,$ and q are integers, then

$$(m + n)(p + q) = (mp + np) + (mq + nq).$$

Proof. Your proof goes here. □

Proposition 1.11 (ii): If $m, n, p,$ and q are integers, then

$$m + (n + (p + q)) = (m + n) + (p + q) = ((m + n) + p) + q.$$

Proof. Your proof goes here. □

Proposition 1.11 (vi): If $m, n, p,$ and q are integers, then

$$(m(n + p))q = (mn)q + m(pq).$$

Proof. Your proof goes here. □

Proposition 1.17(i): The integer 0 is divisible by every integer.

Proof. Your proof goes here. □