Proposition 1.16: If m and n are even integers, then so is $m + n$.

Proof. Your proof goes here. For this one, please try to use the technique that I'll introduce on Monday of reminding the reader of the definition of divisibility early in the proof. "To show that $m + n$ is even we must show that ...". □

Proposition 1.17(ii) (Our version): If m is an integer and m is divisible by 0, then $m = 0$.

Proof. Your proof goes here. □

Proposition 1.18: Let $x \in \mathbb{Z}$. If x has the property that for all $m \in \mathbb{Z}$, $mx = m$, then $x = 1$.

Proof. Your proof goes here. □

Proposition 1.19: Let $x \in \mathbb{Z}$. If x has the property that for some nonzero $m \in \mathbb{Z}$, $mx = m$, then $x = 1$.

Proof. Your proof goes here. □

Proposition 1.24: Let $x \in \mathbb{Z}$. If $x \cdot x = x$ then $x = 0$ or $x = 1$.

Proof. Your proof goes here. □

Proposition 1.25(i): For all $m, n \in \mathbb{Z}$

$$-(m + n) = (-m) + (-n).$$

Proof. Your proof goes here. □

Proposition 1.25(ii): For all $m \in \mathbb{Z}$

$$-m = (-1) \cdot m.$$

Proof. Your proof goes here. □