1

1.1

While i and ii are statements, iii isn't a statement, because we haven't received any information about x's value.

1.2

i)

Statement:

$$\forall n \in \mathbb{F} \ \exists m \in \mathbb{F} \mid n = m + m$$

Negated Statement:

$$\exists n \in \mathbb{F} \ \forall m \in \mathbb{F} \mid n \neq m + m$$

ii)

Statement:

$$\forall m, n \in \mathbb{F} \ n = m + m \to -n = -m - m$$

Negated Statement:

$$\exists m,n \in \mathbb{F} \ n=m+m \ \land \ -n \neq -m-m$$

1.3

i)

Statement:

$$\forall n \in \mathbb{F} \ \exists m \in \mathbb{F} \mid n = m + m$$

Negated Statement:

$$\exists n \in \mathbb{F} \ \forall m \in \mathbb{F} \ \big| \ n \neq m + m$$