

Ans. 16.

7) Andy 16

- 7.1. Let $W(x) = x$ is wealthy economist. * the wealthy economist and famous mathematician could be the same person.
Let $F(x) = x$ is famous mathematician.
Let $E(x) = x$ is an economist
Let $M(x) = x$ is a mathematician

$$\exists x \exists y ((W(x) \wedge E(x)) \rightarrow (F(y) \wedge M(y))).$$

- 7.2. Let $W(x) =$ Logician x is wealthy.
Let $T(x) =$ Logician x is a textbook author.

$$\forall x (T(x) \leftrightarrow W(x))$$

- 7.3. For all things, if a thing glitters, then it is not gold.

- 7.4. For all real numbers, there exists an integer that is equal to the ceiling of that real number.