



### Problem 1

a)  $2^3 = 8$

b)  $2^4 = 16$

c)  $2^0 = 1$  ;  $2^1 = 2$

### Problem 2

$A^n = ?$

$A = m$  ;  $n$  - positive integer

$A^n = m^n$

### Problem 3

a) The truth set is  $\{x \in \mathbb{Z} \mid x^2 < 3\} = \{-1, 0, 1\}$ .

b) The truth set is  $\{x \in \mathbb{Z} \mid x^2 > x\} = \mathbb{Z} \setminus \{0, 1\} = \{\dots, -2, -1, 2, 3, 4, \dots\}$

c) The truth set is  $\{x \in \mathbb{Z} \mid 2x + 1 = 0\} = \emptyset$