

## Функция – 2

1.  $f: \mathbb{Z} \rightarrow \mathbb{Z}$

$$f(f(n)) = f(f(n+2) + 2) = n.$$

2.  $f(g(x) + y) = g(x + f(y)), g(x)$  – инъекция.

3.  $f(xf(y) + y) = x + f(y).$

4.  $f(xf(x) + f(y)) = (f(x))^2 + y.$

## Үй жұмысы. Функция – 2

1.  $f: \mathbb{Z} \rightarrow \mathbb{Z}$

$$f(x + f(y)) = f(x) + y.$$

2.  $f(f(x) + y) = 2x + f(f(y) - x).$

3.  $f(xf(y) - f(x)) = 2f(x) + xy.$

4.  $(y + 1)f(x) + f(xf(y) + f(x + y)) = y.$

5.  $f(x^2 + f(y)) = y + (f(x))^2.$

6.  $f(xf(x + y)) = f(yf(x)) + x^2.$