## Unit 7 Lesson 23: Comparing Functions

### 1 Math Talk: Evaluating Functions (Warm up)

#### Student Task Statement

Mentally evaluate each of the functions when .

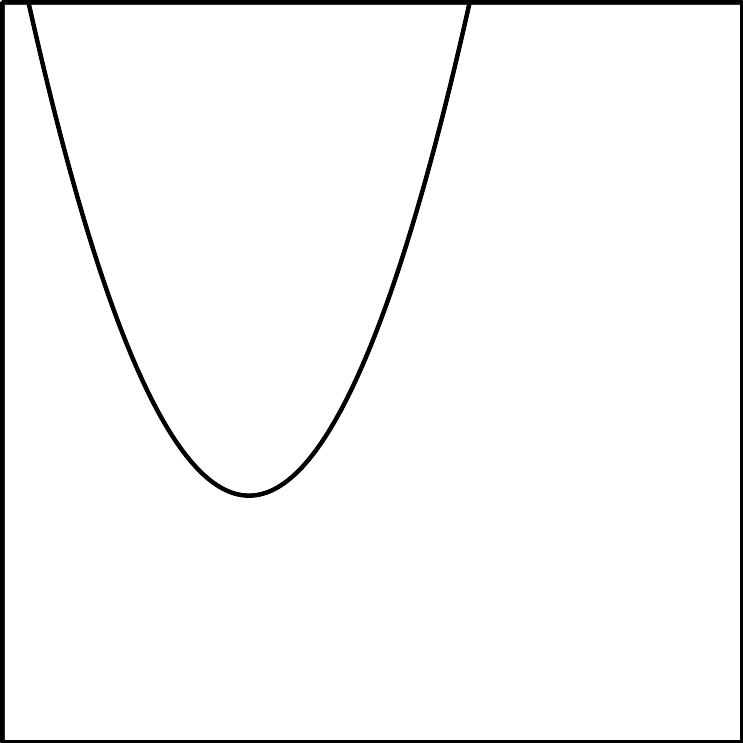
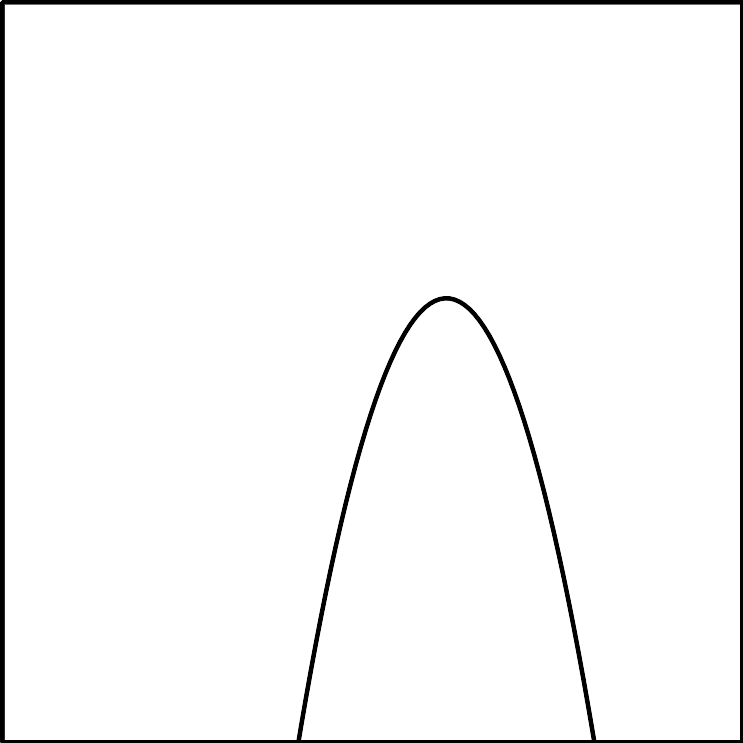
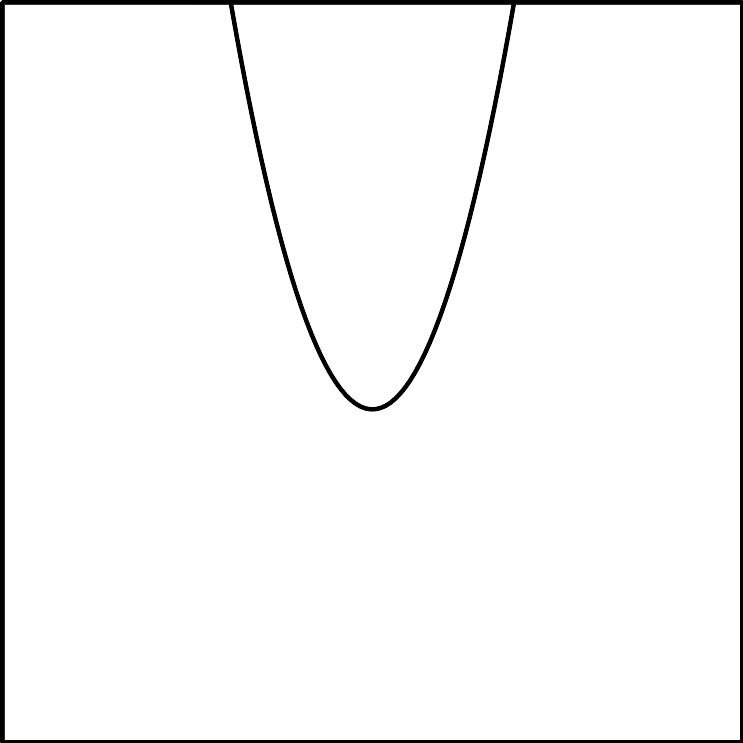
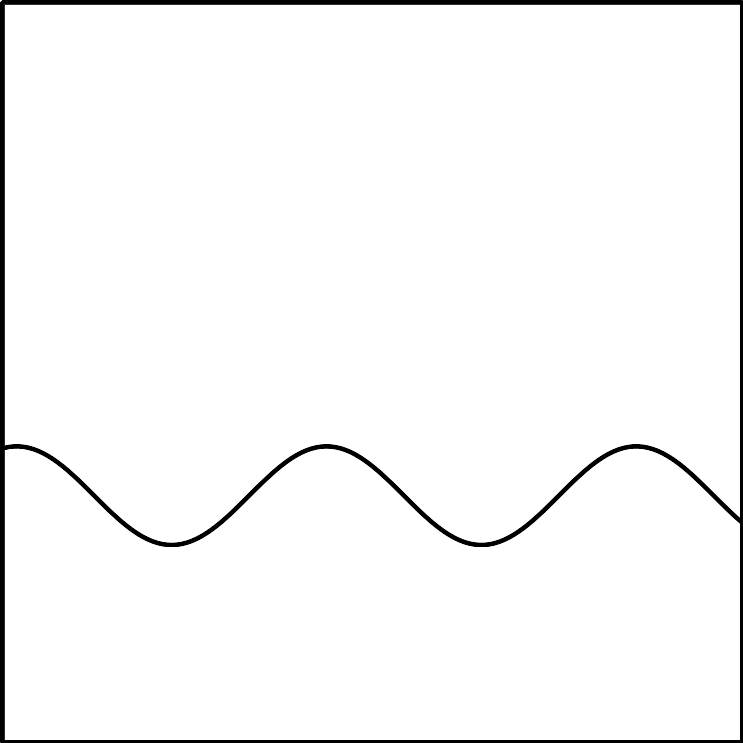
### 2 Comparing Functions

#### Images for Launch



#### Student Task Statement

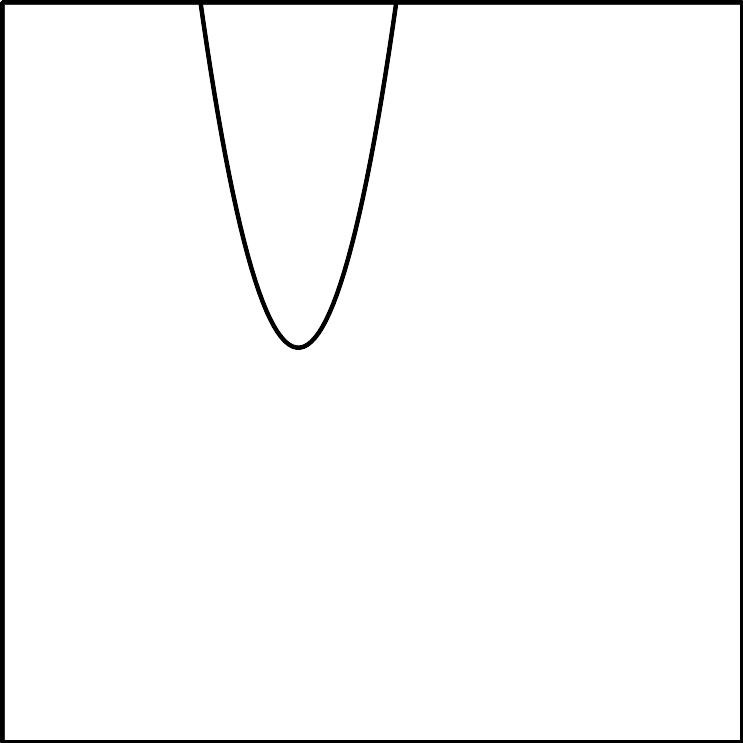
The notation means the output of function when is 2. For each function, determine whether , , or .

1. 
2. 
3. 
4. 

### 3 Finding the Vertex

#### Student Task Statement

Write each function in vertex form, then find the coordinates of the vertex.

1. 



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