

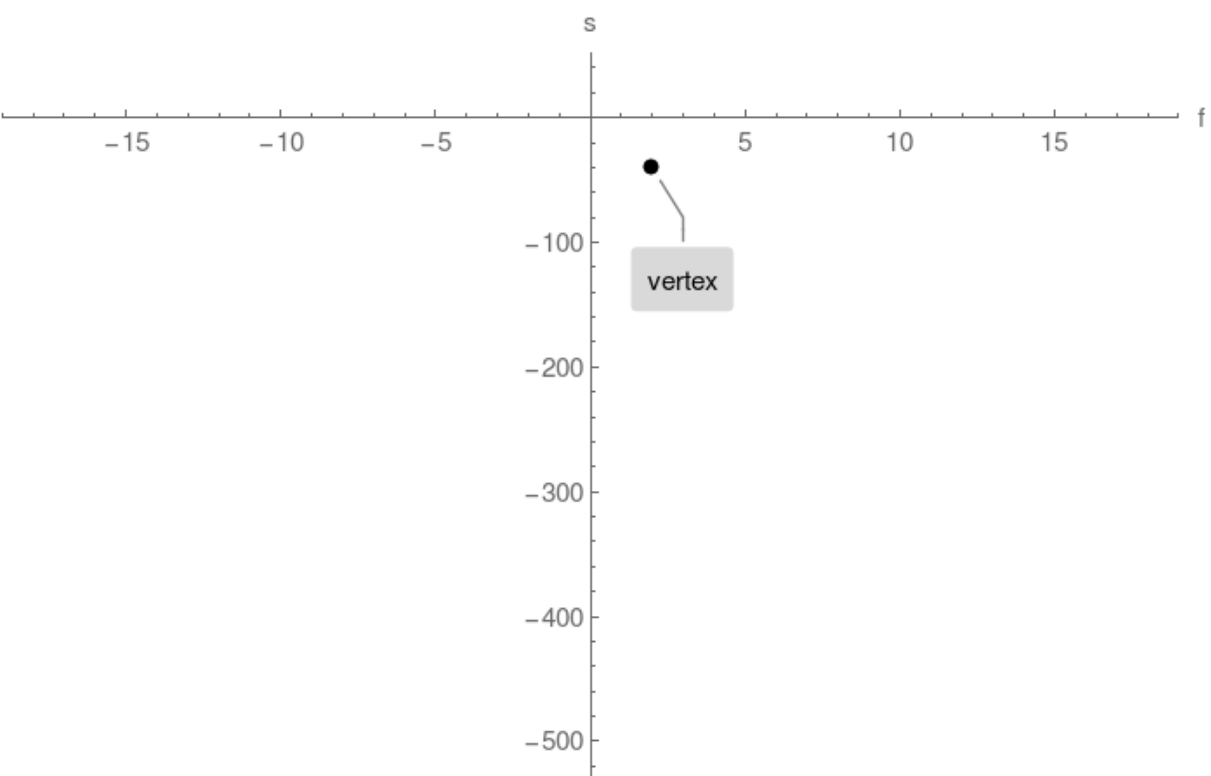
## Example 2. No horizontal intercepts found

Plot  $s(f) = -f^2 + 4f - 44$

### Step 1.

Compute vertex and plot single point:

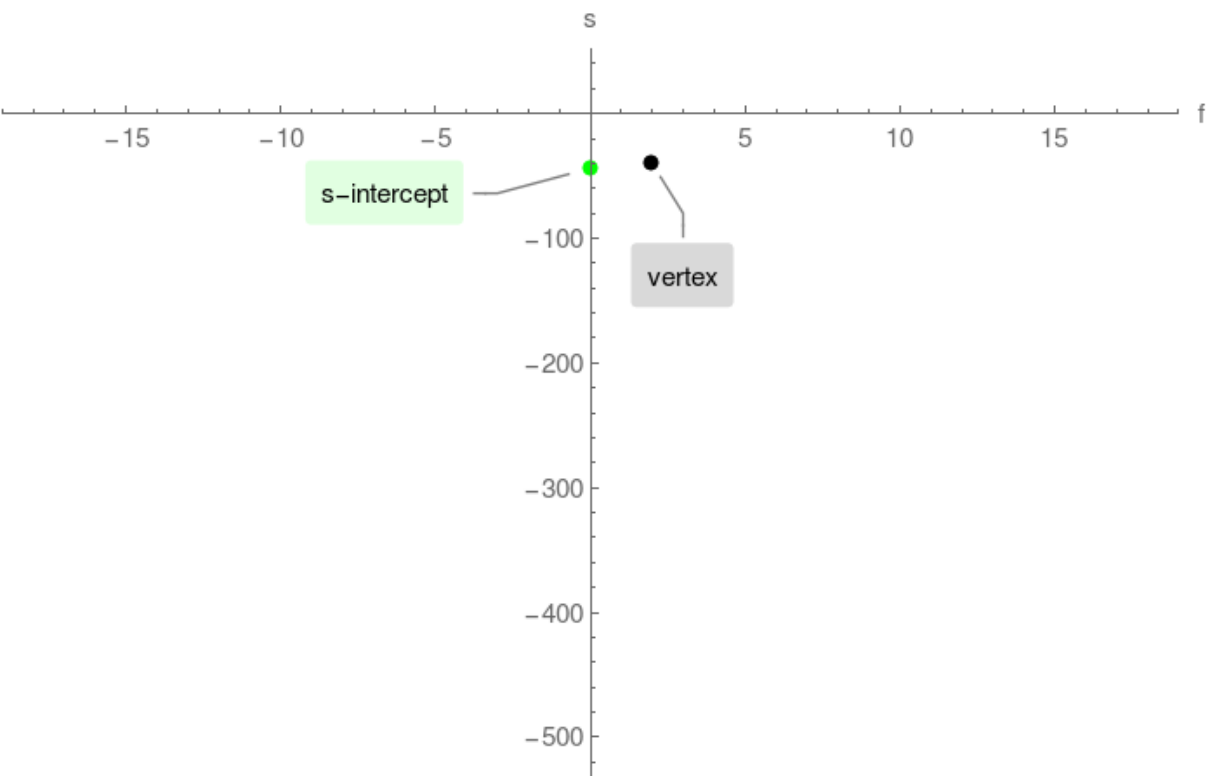
vertex =  $(2, -40)$



### Step 2.

Compute  $s$ -intercept and plot single point:

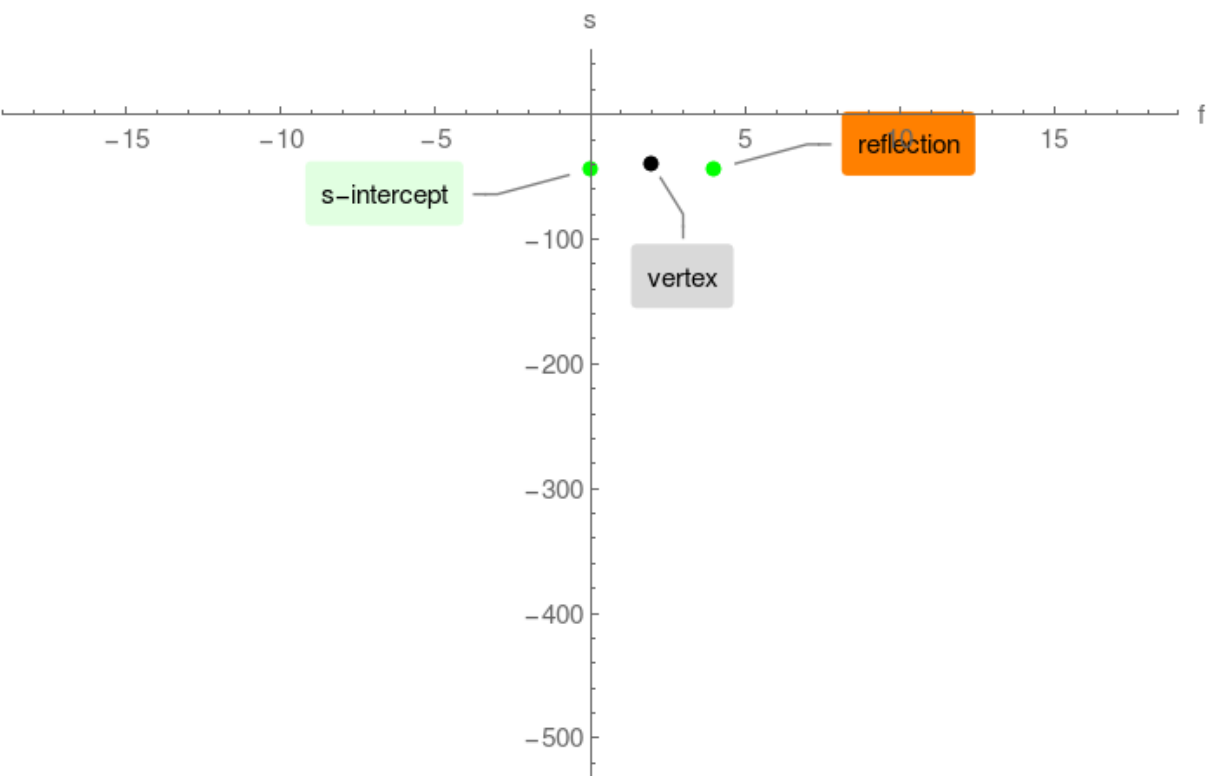
$s$ -intercept =  $(0, -44)$



### Step 3.

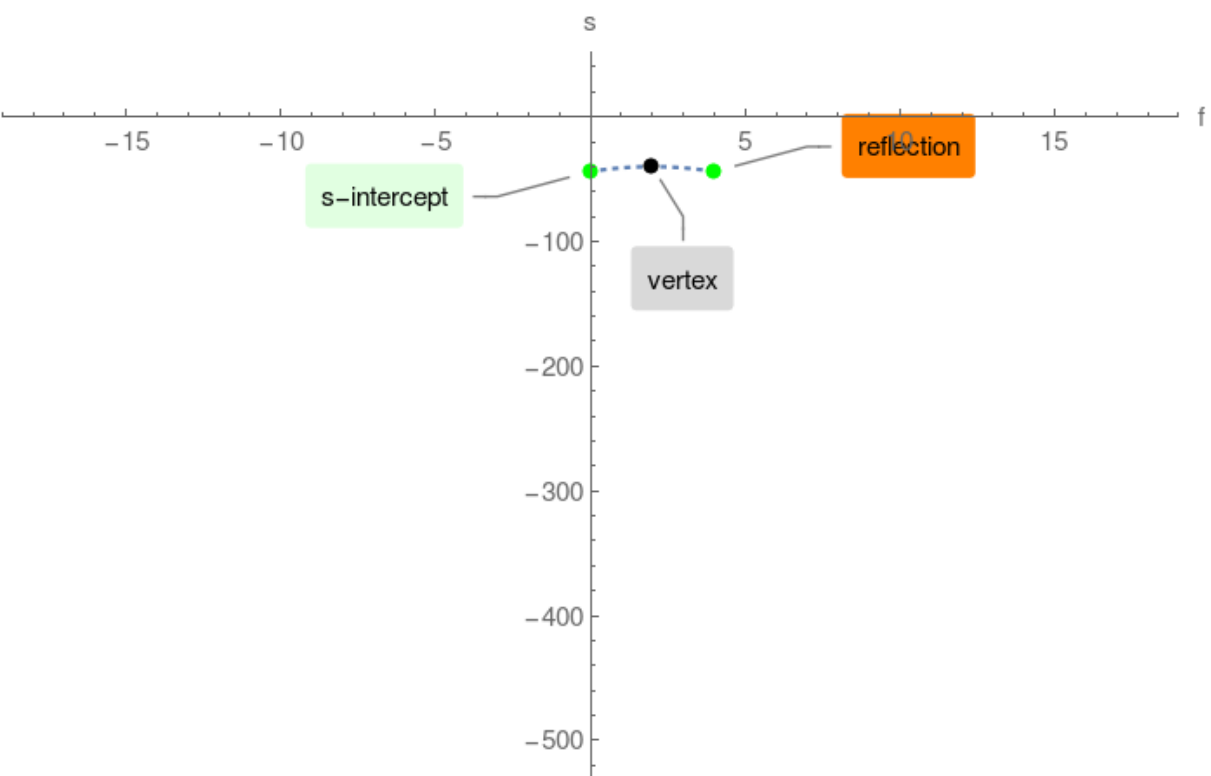
Compute  $s$ -intercept reflected against vertex,

reflection =  $(4, -44)$



### Step 4.

connect the above computed points:



### Step 5.

Extend the parabola beyond the range of intercepts

