

Remaining wrong answers  
drop them here, in order from  
left to right:

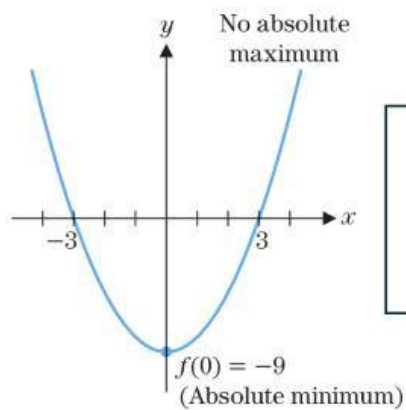
No absolute minimum

absolute minimum

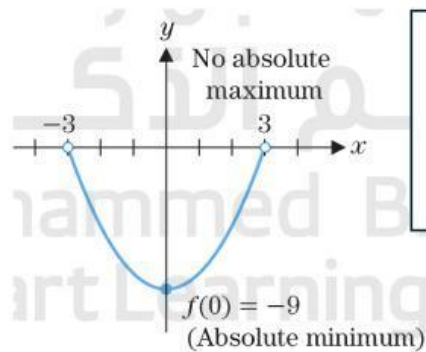
No absolute maximum

absolute maximum

Why does these graphs not have a maximum (Hint: check the intervals)?



$$y = x^2 - 9 \text{ on } (-\infty, \infty)$$

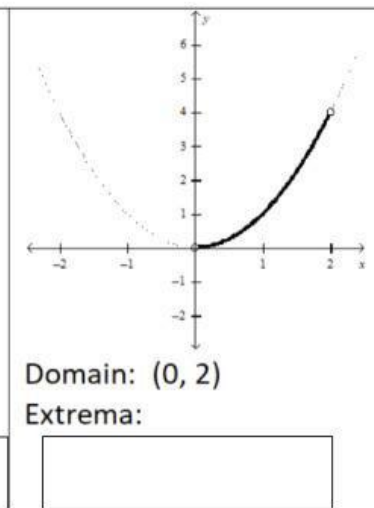
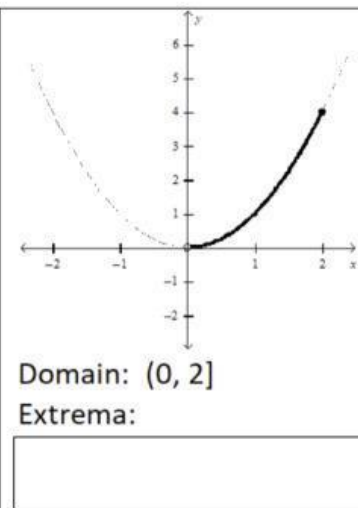
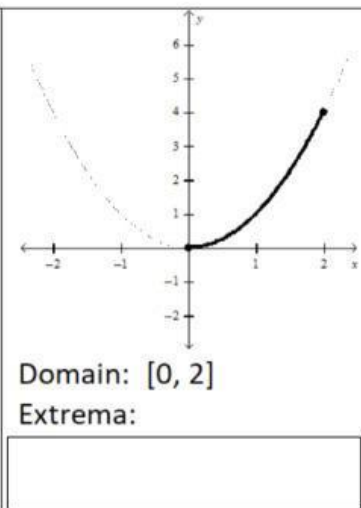
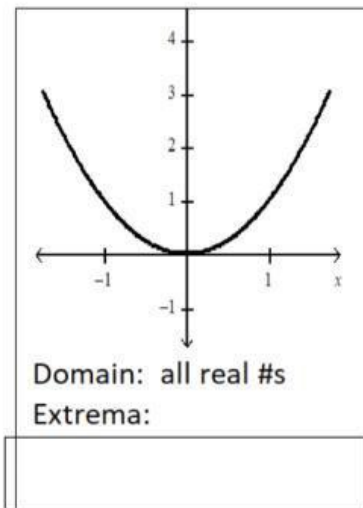


$$y = x^2 - 9 \text{ on } (-3, 3)$$

Because the interval  $(-\infty, \infty)$  is all real numbers so the max points goes up to  $\infty$

Because its an open interval and the endpoints are not included ; so they are not a maximum

$$y = x^2$$



No absolute minimum  
No absolute maximum

Absolute minimum of 0 at  $x=0$   
No absolute maximum

Absolute minimum of 0 at  $x=0$   
absolute maximum of 4 at  $x=2$

No absolute minimum  
absolute maximum of 4 at  $x=2$