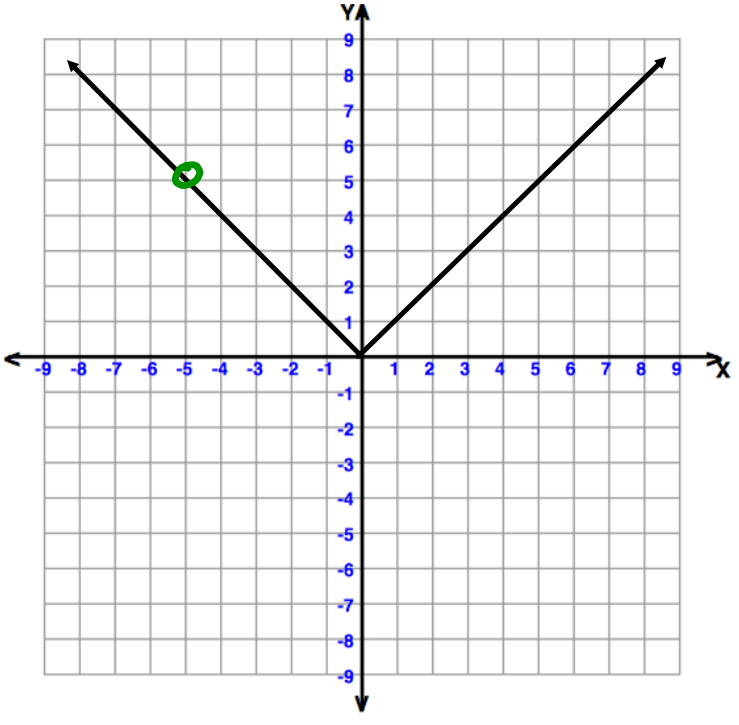
State the Domain, Range, and Intercepts for the following graph



Domain: $(-\infty, \infty)$

Range: $[0, \infty)$

x-intercept: $0 = (0,0)$

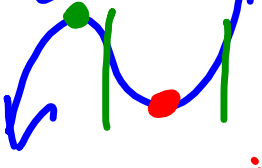
y-intercept: $0 = (0,0)$

8-3

Maximum & Minimum

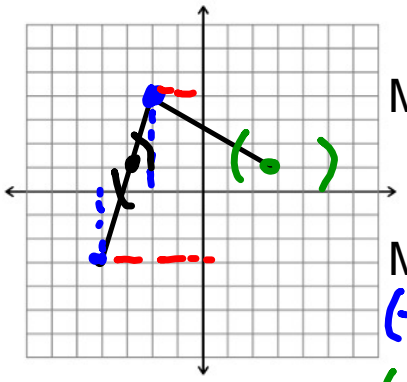
I can identify a maximum and minimum on a graph

Max -> highest point on a graph locally



Min -> lowest point on a graph locally

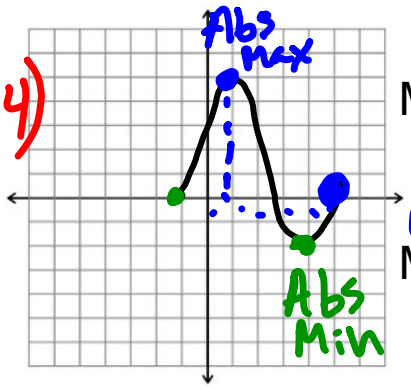
We write maximum and minimum as ordered pairs



Max: (-2, 4)

Min: (-4, -3)

(3, 1)

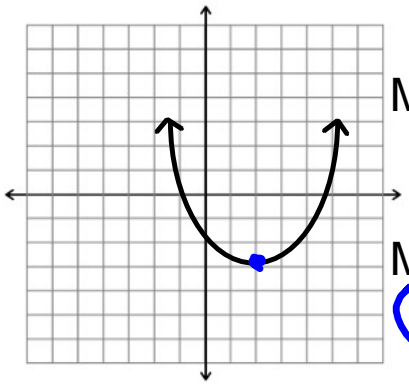


Max: (1, 5)

(5, 0)

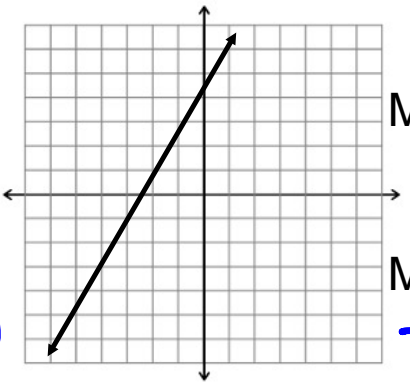
Min: (4, -2)

(-1, 0)



Max: ∞

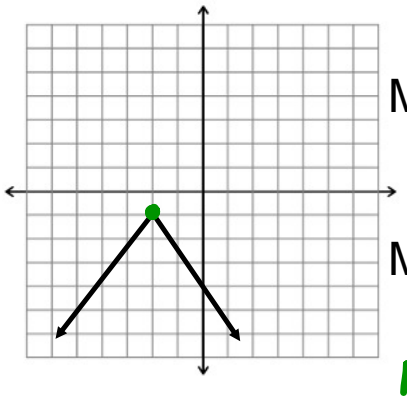
Min: $(2, -3)$



Max: ∞

Min: $-\infty$

We write maximum and minimum as ordered pairs

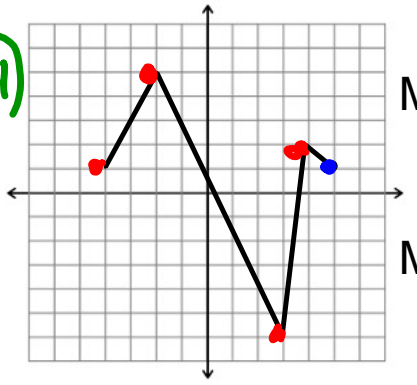


Max: (-2, -1)

Min: None

(-4, 1) Lo max

(5, 1)

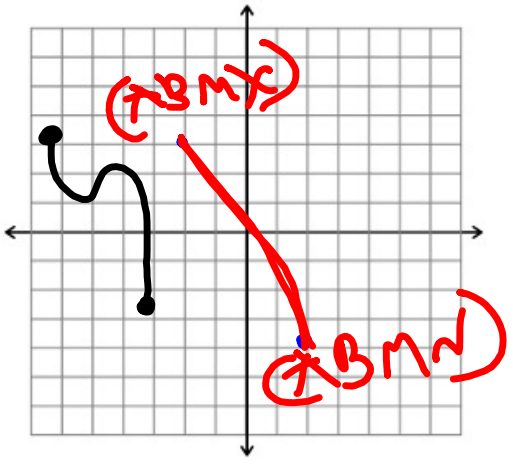


Max: (-2, 5) Ab max

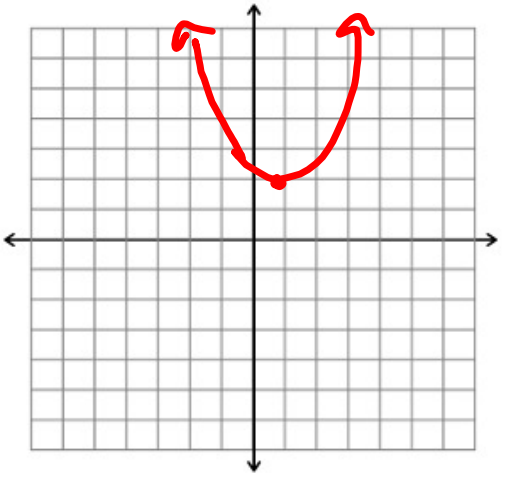
Min: (3, -6) Ab min

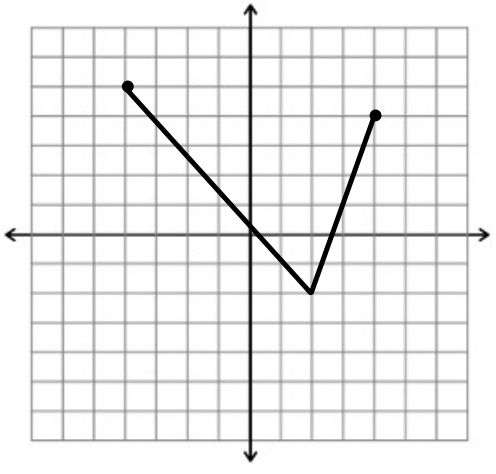
(4, 2) Lo max

Draw a graph that has a maximum at (-2,3) and a minimum at (2,-4)



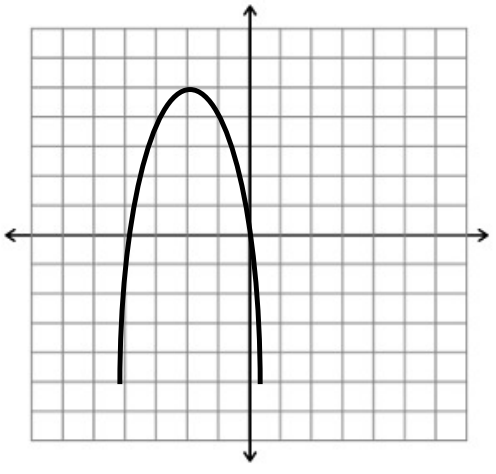
Draw a graph that has a minimum at (1,2) and no maximum





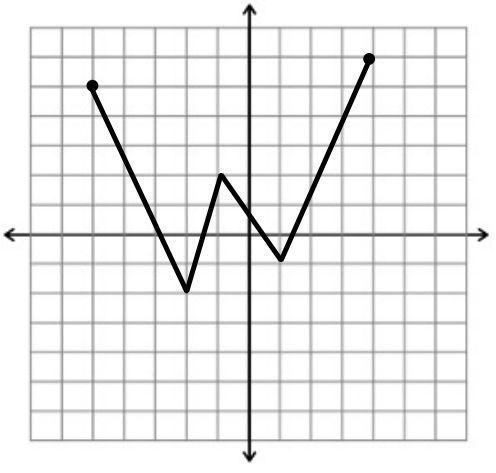
Max:

Min:



Max:

Min:



Max:

Min: