

Trig 3.6

Find the extrema of a function

critical point (value, numbers)

maximum

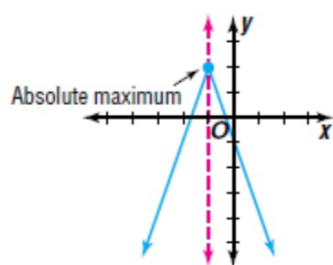
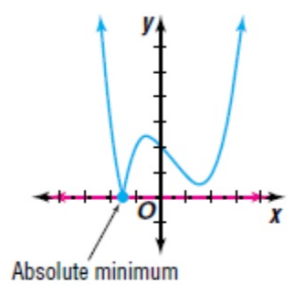
(absolute, relative)

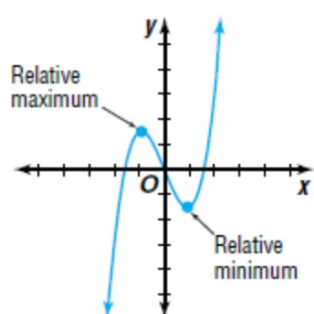
minimum

(absolute, relative)

inflection point

extrema (pl) (extremum: singular)





Use a graphing calculator to graph each function and to determine and classify its extrema.

6. $f(x) = 2x^5 - 5x^4$

7. $g(x) = x^4 + 3x^3 - 2$

$x = -2.2$
 abs min $x = -2$
 $x = -0.9$
 rel max $x = -1$
~~rel min $x = 0$~~

• :

Table... y-coords.
 max/min/abs/rel
 inflec pt: only if they ask

Quiz Mon. 3.5-3.6

35.

