

Given the list below, list the equations that have:

2 Real Solutions**1 Real Solution****0 Real Solutions**

a) $y = a(x - h)^2 - k$

b) $y = -a(x + h)^2 - k$

c) $y = a(x + h)^2 + k$

d) $y = a(x - h)^2$

e) $y = -a(x - h)^2 + k$

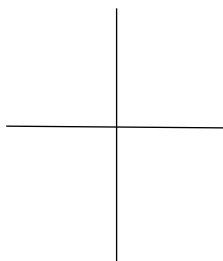
f) $y = -a(x - h)^2 - k$

g) $y = a(x + h)^2 - k$

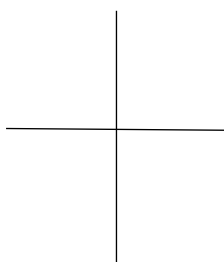
h) $y = -a(x + h)^2$

Sketch the graphs of each to prove your answers.

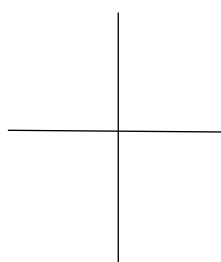
a)



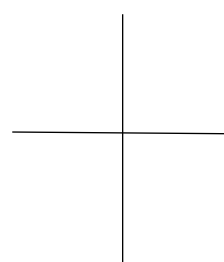
b)



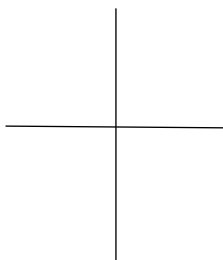
c)



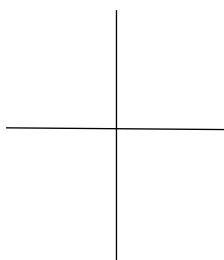
d)



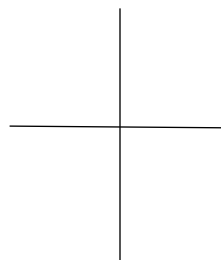
e)



f)



g)



h)

