g(x) $= 3x^2 + 24x - 30$ find the value for x that maximizes g(x)
$g^{`}(x) = 6x + 24$
$6x + 24 = 0$
$6x = -24$
x=+_4
$g(4) = -3 * (4)^2 + 24 * 4 - 30$
g(4) $= -48 + 96 - 30$
g(4) $= 18$
$g(-4) = -3 * (-4)^2 + 24 * (-4) - 30$
$g(-4) = -48 - 96 - 30$
$g(-4) = -174$