How to find the tangent line

Too find the gradient of a function: example $g(x) = \frac{16}{x} - 4\sqrt{x}$ at $x = 4$

First find the y, sub the x = 4 -> equation: y = -4

New point (4, -4)

$g'(x) = \frac{-16}{x^2} - \frac{2}{\sqrt{x}}$, the M_tangent = g'(x)

Sub x = 4 -> g'(x)

That will = M_gradiant = -2

The equation of the tangent is y = mx+c

-4 =(-2)(4) + c
C = 4

The equation of the tangent line is: y =-2x + 4