

Extra Special Parabola Questions

① There are two points on the parabola $y = 2x^2 - 12x + 23$ with a tangent line that extends through $(5, -5)$. What are the two points?

② There are two points on the parabola $y = -3(2x - 4)^2 - 2$ with a tangent line that extends through $(5, -2)$. What are the points?