1. (2.7 #1) Given the cost function \( C(x) = x^3 - 6x^2 + 13x + 15 \), find the minimum marginal cost.

2. (3.1 #7 & 25) Differentiate the following functions:

(a) \( y = (x^2 + 3)(x^2 - 3)^{10} \)

(b) \( y = \left( \frac{x + 11}{x - 3} \right)^3 \)
3. (3.1 #31) Find all $x$-coordinates of the points $(x, y)$ on the curve $\frac{(x - 2)^5}{(x - 4)^3}$ where the tangent line is horizontal.

4. (3.2 #25) Find $h'(x)$ for $h(x) = \frac{f(x^2)}{x}$ where $f(x)$ is a differentiable function.