No notes, books, cellular devices or graphing calculators are to be used.

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

2. (3.1 #6 & 7) Differentiate the functions:
   (a) $y = x\sqrt{x}$
   (b) $y = (x^2 + 3)(x^2 - 3)^{10}$
3. (3.1 #31) Find the $x$-coordinates of points $(x, y)$ on the curve

\[ y = \frac{(x - 2)^5}{(x - 4)^3} \]

where the tangent line is horizontal.