

Name _____

Homework 0
Formatting, etc.

The purpose of this assignment is to have a low (no) stakes assignment to evaluate the correct formatting of homework assignments (and maybe a little math).

1. (7) Consider the function $g(x) = \frac{x}{3\sqrt{2x^2 - 9}}$. Determine the integral of $g(x)$ over the interval $[3, 15]$.

2. (5) Determine the equation of the line which is tangent to the graph of $h(x) = x^3 + 6\sqrt{x} + \frac{8}{x}$ at the point where $x = 4$.

3. (4ea) Let $f(t) = (3t^2 - 5t + 2)(t^2 - 5)e^{t-1}$ and $g(x) = 2x^2 - 7x + 5$.

(a) Determine the zero(s) of $f(t)$

(b) Determine the input(s) of $g(x)$ for which the output is equal to 8.

4. Copy the statement found at <https://www.math.arizona.edu/~cjewell/223/hw0.html> and sign your name.