- **5.** (10 points)
 - (a) If the graph of

$$\frac{a}{y} + x^2 + b \ln y = 6$$

goes through the point (2,1) for some implicitly defined y, find a.

(b) Suppose g(x) = -4x + 9 is the equation of the tangent to the curve defined above at the point (2,1). Find b.