**STA 504 Homework #6**

**Due: Monday, October 16**

**Show you’re your work to earn full credit. You are encouraged to work with your peers on assignments. The write-up must be your own.**

**Problem 1.**

Consider the following gamma distribution

with MGF

Find the following numerical measures of the shape of this gamma distribution using the MGF to find all required moments. [Hint: review the example used in the class before attempting the following items]

1. Express in terms of moments.
2. E[Y]
3. V[Y].
4. Skew[Y].
5. Kurt[Y].