

[illegible]

```

%define 1st moment and variance as a function of lemda

m1=Lemda.*gamma_function(1);
variance=Lemda.^2.*(gamma_function(2)-gamma_function(1)^2);
V=variance.^(1/2);
skewness_function= ((gamma_function(3).*Lemda.^3)-(3.*m1.*variance)-m1.^3)./((V).^3);

subplot(2,1,2)
plot(Lemda,skewness_function)
title('Skewness as a function of lemda')

```

ORDER	Moment CODE value	Moment EXACT value
1.0	0.885775	0.886227
2.0	0.999040	1.000000
3.0	1.327464	1.329340
4.0	1.996551	2.000000
5.0	3.317669	3.323351

Variance code value	Variance EXACT value
0.214443	0.214602

skewness_code at lemda=1 =
0.630816970162100



