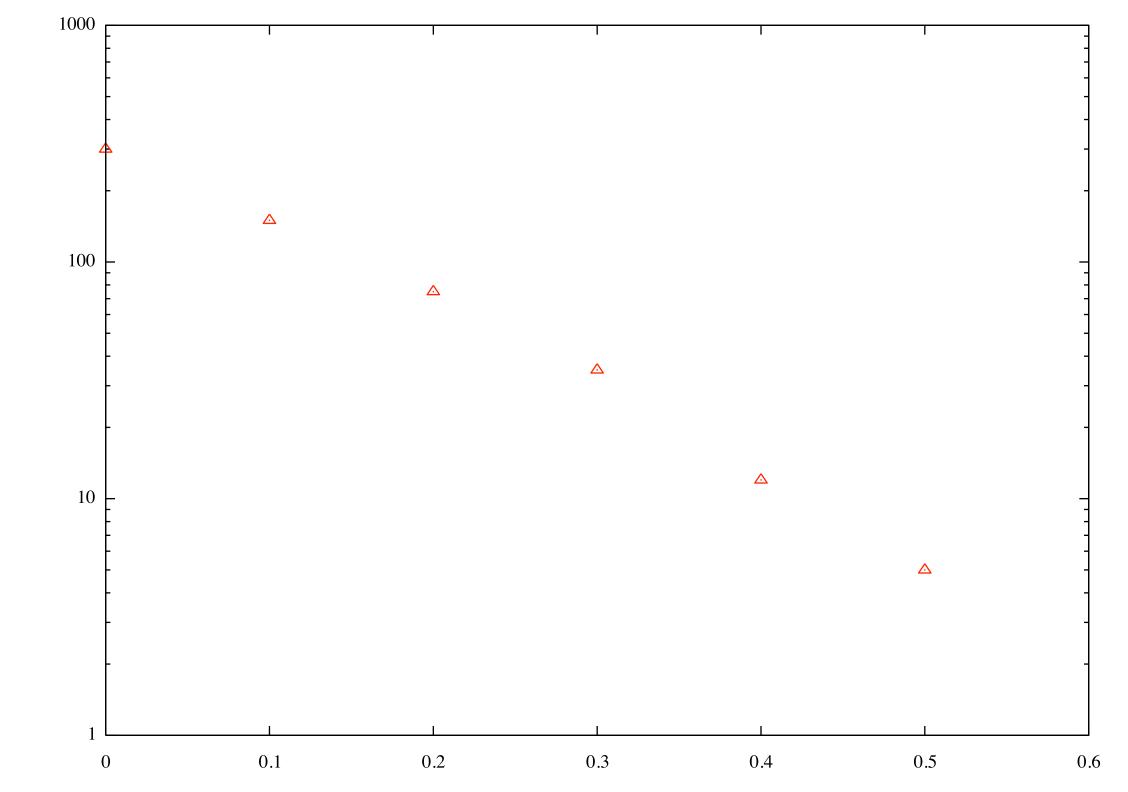
```
ME 464/664 Solns, Exam 1 2006
Apr 19 14:17 2006 p1p33.m Emacs buffer Page 1
t=(0:.1:.6)';
T=[300 150 75 35 12 5 2]';
semilogy(t,T,'*')
logT=log(T);
```

p=polyfit(t,logT,1)

m=p(1)b=exp(p(2))

disp(['solution is ' num2str(b) 'e^' num2str(m) 'T'])



2) 
$$(m_1 + m_2 + m_3)$$
  $(m_1 + m_2 + m_3)$   $(m_1 + m_3 + m_4)$   $(m_2 + m_3)$   $(m_3 + m_4)$   $(m_3 + m_4)$   $(m_3 + m_4)$   $(m_3 + m_4)$   $(m_4 +$ 

K2(L.O-X) ZM= I = - K, L, O(L, cose) - K2 (1,0-x) L, of - mg 1 s sin 0 51n0=0 for small &, cos0=1 for small &

I \(\theta + (k, l, 2 + k, l, 2) \text{0} = mgly sin0 + k, l, X a) Linear: 2,3 Antonomous: 1, 2,4