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```
[t,n] = mooreslaw;
b = log(n);
temp = ones(13,1) - 2.*ones(13,1);
A = [t temp];
x = A\b;
t0 = x(2,1)/x(1,1)
alpha = exp((x(1,1)))

num_trans = alpha.^(t-t0.*ones(13,1));

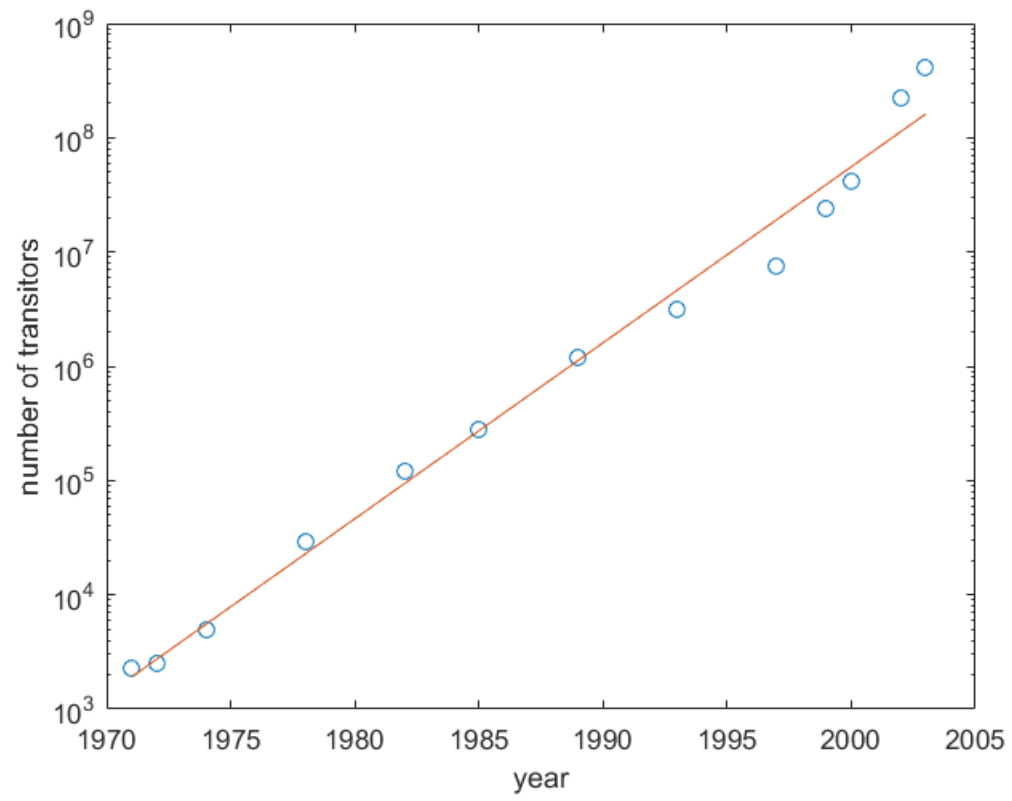
semilogy(t, n, 'o');
hold on
semilogy(t,num_trans,'-');
xlabel('year')
ylabel('number of transitors')
```

*t0 =*

*1.9497e+03*

*alpha =*

*1.4257*



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