```
%Define mass vector
mass=logspace(0,6);
%Use energy function created
E=energy(mass)

%Create subplots, and plot results
subplot(2,2,1)
plot(mass, E)
%Label graph
xlabel('Mass, kg'), ylabel('Energy, Joules'), title('Energy vs Mass')

%Graph with Y axis scaled logarithmically
subplot(2,2,2)
semilogy(mass, E)
xlabel('Mass, kg'), ylabel('Energy, Joules'), title('Energy vs Mass')

%Graph with X axis scaled logarithmically
subplot(2,2,3)
semilogx(mass, E)
xlabel('Mass, kg'), ylabel('Energy, Joules'), title('Energy vs Mass')

%Graph with both X and Y axis scaled logarithmically
subplot(2,2,4)
loglog(mass, E)
xlabel('Mass, kg'), ylabel('Energy, Joules'), title('Energy vs Mass')
```

```
E =

   1.0e+22 *

  Columns 1 through 7

    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000

  Columns 8 through 14

    0.0001    0.0001    0.0001    0.0002    0.0002    0.0003    0.0003

  Columns 15 through 21

    0.0005    0.0006    0.0008    0.0011    0.0014    0.0019    0.0025

  Columns 22 through 28

    0.0033    0.0044    0.0059    0.0078    0.0103    0.0137    0.0181

  Columns 29 through 35

    0.0240    0.0318    0.0422    0.0560    0.0742    0.0983    0.1304

  Columns 36 through 42
```

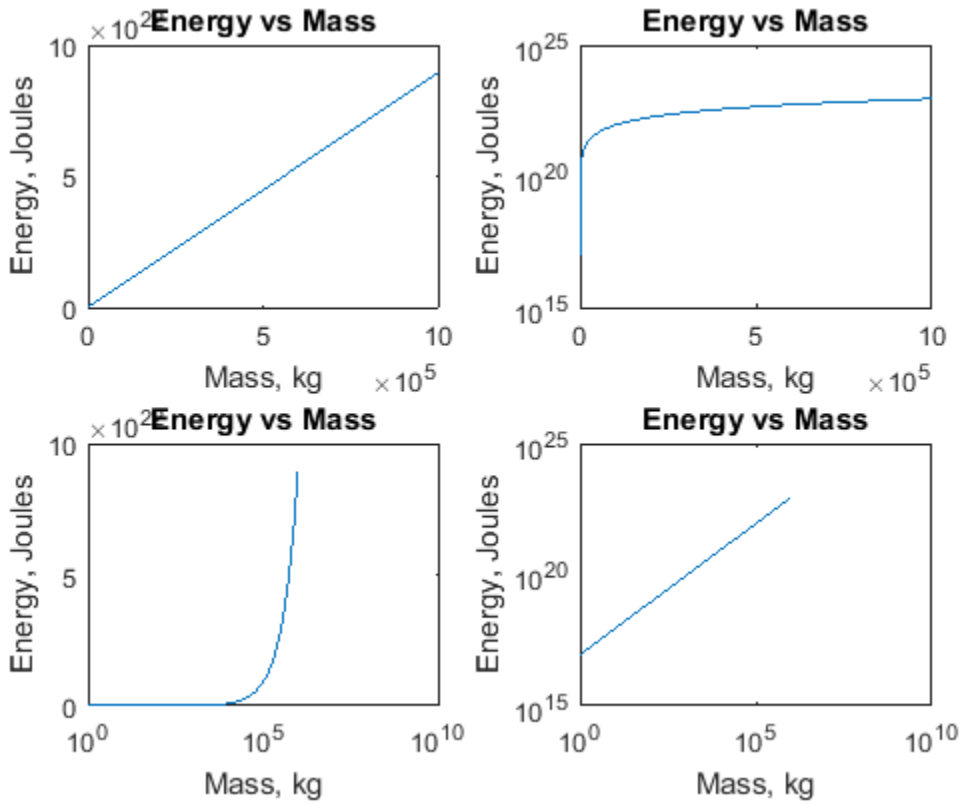
```
  0.1728    0.2291    0.3037    0.4027    0.5338    0.7077    0.9382

Columns 43 through 49

  1.2438    1.6489    2.1860    2.8980    3.8419    5.0933    6.7522

Column 50

  8.9515
```



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