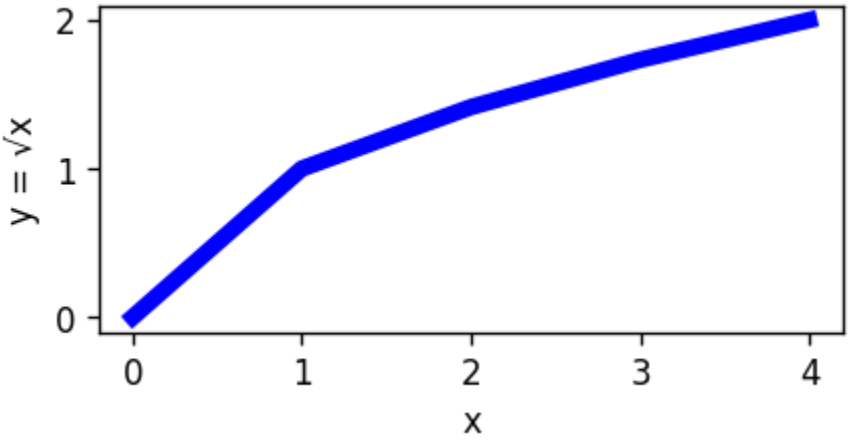
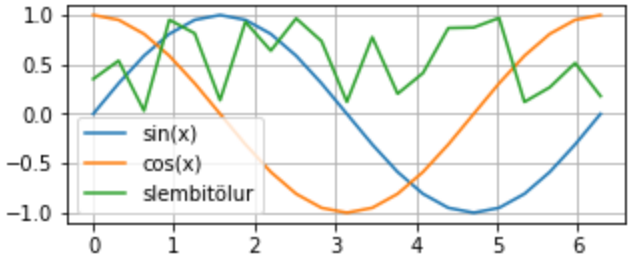
```
import matplotlib.pyplot as plt
from math import sqrt
x = range(5)
y = [sqrt(t) for t in x]
plt.figure(figsize=(4, 1.8), dpi=120) # dpi=72 sjálfgefið
plt.plot(x, y, lw=5, ls='-', c='b', marker='+', ms=3)
plt.xlabel('x')
plt.ylabel('y = √x')
```

```
Text(0, 0.5, 'y = √x')
```




```
from math import pi, sin, cos
from random import random
t = [k*2*pi/20 for k in range(21)]
s = [sin(x) for x in t]
c = [cos(x) for x in t]
y = [random() for k in range(21)]
plt.figure(figsize=(5,2))
plt.plot(t, s, label='sin(x)')
plt.plot(t, c, label='cos(x)')
plt.plot(t, y, label='slembitölur')
plt.grid(True)
plt.legend();
```




```
from random import gauss
x = [gauss(0,1) for i in range(500)]
plt.figure(figsize = (6,3))
```

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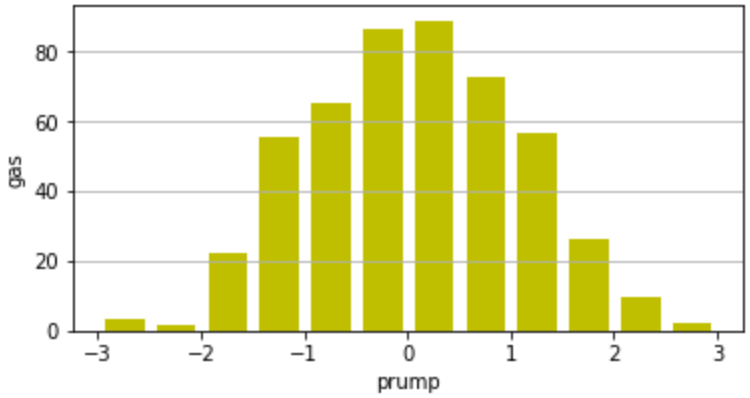
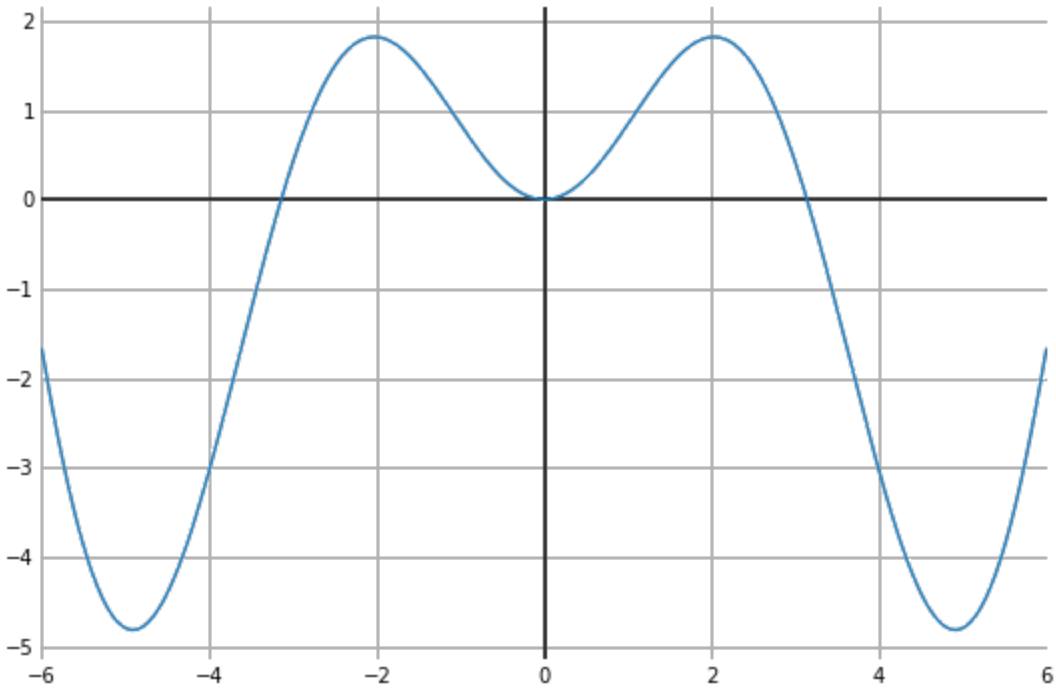
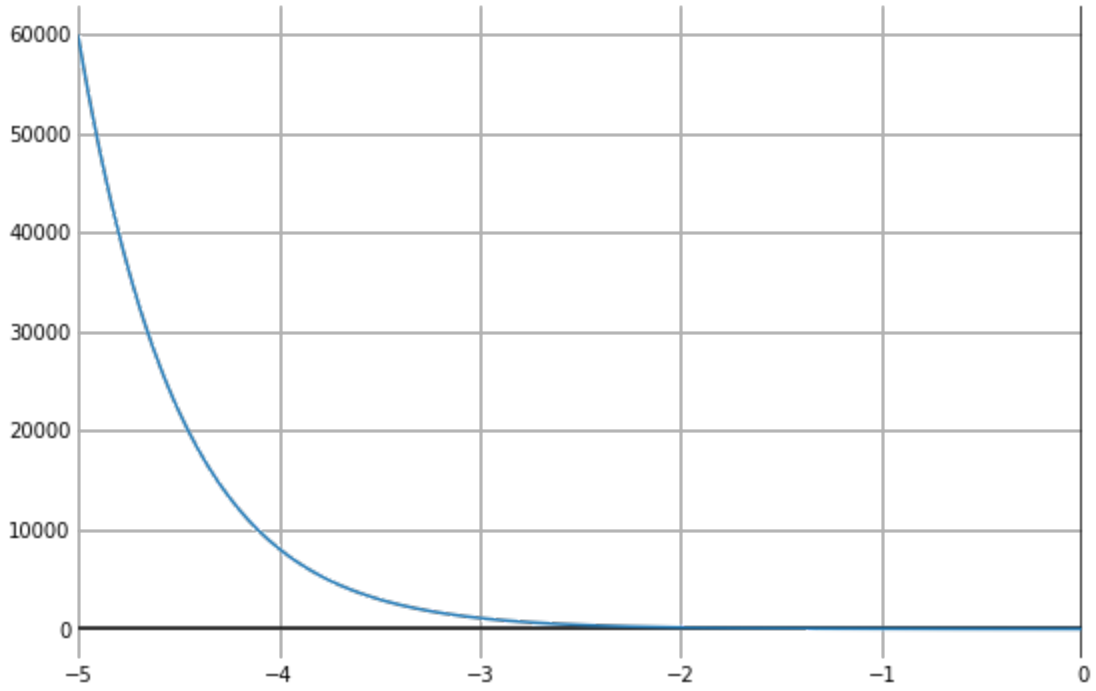
```
plt.xlabel('prump');
plt.ylabel('gas');
plt.grid(True, axis='y')
```




```
import matplotlib.pyplot as plt
from math import exp, sin
plt.rc('axes', axisbelow=True)
def linspace(a,b):
   return [a + (b-a)*i/200 for i in range(201)]
(a,b) = (-6,6)
x = linspace(a,b)
plt.figure(figsize=(9,6)); plt.grid(True)
plt.axvline(c='k'); plt.axhline(c='k')
plt.box(False)
plt.plot(x, [t*sin(t) for t in x])
plt.xlim([a,b])
plt.tick_params(length=0)
```



```
import matplotlib.pyplot as plt
from math import exp, sin
plt.rc('axes', axisbelow=True)
def linspace(a,b):
   return [a + (b-a)*i/200 for i in range(201)]
(a,b) = (-5,0)
x = linspace(a,b)
plt.figure(figsize=(9,6)); plt.grid(True)
plt.axvline(c='k'); plt.axhline(c='k')
plt.box(False)
plt.plot(x, [exp(-2*t+1) for t in x])
plt.xlim([a,b])
plt.tick_params(length=0)
```




```
import csv
with open("malmar.txt") as f:
   reader = csv.reader(f, delimiter=' ', skipinitialspace=True)
   L = list(reader)
   d1 = [undirlisti[1] for undirlisti in L]



print(d1)
```

```
['Eðlisþyngd', '2.70', '7.87', '8.96', '19.30']
```

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