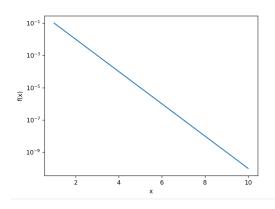
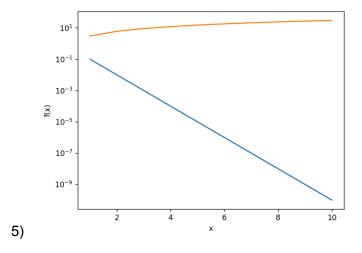
```
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Lab 1
APPM4600-001
```

## 3.2 Exercises

```
1) >> x = np.linspace(0, 10, 11)
   >>y = np.arange(0, 11, 1)
    >>>x
    array([ 0., 1., 2., 3., 4., 5., 6., 7., 8., 9., 10.])
    array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10])
    >>> x.size
    11
    >>> y.size
    11
2) >>> x[1:4]
    array([1., 2., 3.])
3) >>> print('The first three entries of x are', x[:3])
    The first three entries of x are [0. 1. 2.]
4) The entries of w = [1.e-01 \ 1.e-02 \ 1.e-03 \ 1.e-04 \ 1.e-05 \ 1.e-06 \ 1.e-07 \ 1.e-08 \ 1.e-09
    1.e-10]
    >> x = np.arange(1, w.size+1, 1)
   >>> x
    array([ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10])
    >>> plt.semilogy(x,w)
    [<matplotlib.lines.Line2D object at 0x000001B7C7DCF3E0>]
    >>> plt.xlabel('x')
   Text(0.5, 0, 'x')
    >>> plt.ylabel('f(x)')
    Text(0, 0.5, 'f(x)')
    >>> plt.show()
```





## 4.2 Exercises

1) We were working with errors when we created testDot.py