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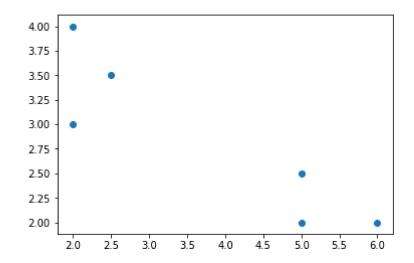
```
In [6]: import numpy as np
```

```
In [7]: X = np.array([2,2,5,6,5,2.5])
Y = np.array([4,3,2,2,2.5,3.5])
```

In [8]: import matplotlib.pyplot as plt
%matplotlib inline

```
In [10]: plt.scatter(X,Y)
```

Out[10]: <matplotlib.collections.PathCollection at 0x2100bfc73c8>



```
In [11]: c1 = (2, 4)
c2 = (5, 2)
c_1 = []
c_2 = []
```

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```
In [13]: c11, c22 = distance(c1, c2, X, Y)
          (2.0, 4.0)
          (2.0, 3.5)
          (5.0, 2.0)
          (5.5, 2.0)
          (5.333333333333333, 2.166666666666665)
          (2.16666666666665, 3.5)
In [15]: plt.scatter(X,Y)
          plt.scatter(c11[0],c11[1])
          plt.scatter(c22[0], c22[1])
          plt.show()
           4.00
           3.75
           3.50
           3.25
           3.00
           2.75
           2.50
           2.25
           2.00
                           3.0
                                3.5
                                      4.0
                                           4.5
                2.0
                      2.5
                                                 5.0
                                                            6.0
In [ ]:
```