```
In [6]: import numpy as np
         x = np.array([1, 2, 3, 5])
         N = 3
         np.vander(x, N)
Out[6]: array([[ 1,
                          1],
                [4,
                          1],
                      2,
                [ 9,
                      3,
                          1],
                [25,
                      5,
                          1]])
In [7]: np.column_stack([x**(N-1-i) for i in range(N)])
Out[7]: array([[ 1,
                      1,
                          1],
                [4, 2,
                          1],
                [9, 3, 1],
                [25, 5, 1]], dtype=int32)
In [9]: x = np.array([1, 2, 3, 5])
         np.vander(x)
Out[9]: array([[ 1,
                             1,
                                  1],
                             2,
                                  1],
                [ 8,
                        4,
                [ 27,
                       9,
                             3,
                                  1],
                [125, 25,
                             5,
                                  1]])
In [10]: | np.vander(x, increasing=True)
Out[10]: array([[
                   1,
                        1,
                             1,
                                  1],
                   1,
                        2,
                             4,
                                  8],
                [
                        3,
                             9, 27],
                1,
                   1,
                            25, 125]])
In [11]: | np.linalg.det(np.vander(x))
Out[11]: 48.000000000000003
In [ ]:
```