```
Neville's method result for f(3.7): 1.5549999999999995
Newton's forward difference table:
 [[23.5492  1.8421 -0.411  -0.3836]
 [25.3913  1.4311 -0.7946  0.    ]
 [26.8224  0.6365  0.      0.    ]
 [27.4589  0.      0.      0.    ]]
Newton's forward method result for f(7.3): 24.497649999999997
Hermite polynomial approximation matrix:
 [[ 1.67500000e+00  0.00000000e+00 -5.97500000e+00  2.98750000e+01
  -9.88055556e+01  3.27870370e+02]
 [ 1.67500000e+00 -1.19500000e+00 -9.99200722e-15  2.33333333e-01
  -4.44444444e-01  0.00000000e+00]
 [ 1.43600000e+00 -1.19500000e+00  7.00000000e-02  1.00000000e-01
   0.00000000e+00  0.00000000e+00]
 [ 1.43600000e+00 -1.18800000e+00  8.00000000e-02  0.00000000e+00
   0.00000000e+00  0.00000000e+00]
 [ 1.31800000e+00 -1.18000000e+00  0.00000000e+00  0.00000000e+00
   0.00000000e+00  0.00000000e+00]
 [ 1.31800000e+00 -1.18200000e+00  0.00000000e+00  0.00000000e+00
   0.00000000e+00  0.00000000e+00]]
Cubic spline matrix A:
 [[12.  3.]
 [ 3. 10.]]
Cubic spline vector b:
 [0. 2.]
Cubic spline vector x:
 [-0.05405405  0.21621622]
```

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   0.00000000e+00  0.00000000e+00]
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   0.00000000e+00  0.00000000e+00]
 [ 1.31800000e+00 -1.18200000e+00  0.00000000e+00  0.00000000e+00
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.....
----------------------------------------------------------------------
Ran 5 tests in 0.004s

OK
```