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```

polyval((-1) .^ (5:-1:0)) ./ (factorial(10:-2:0)), 1)
polyval((-1) .^ (5:-1:0)) ./ (factorial(10:-2:0)), 1) - cos(1)
x = 1:5; y = polyval(ones(5, 1), x); polyfit(x, y, 4)
x = 1:5; y = 5:-1:1; polyval(polyfit(x, y, 4), x)
x = 1:5; y = 5:-1:1; spline(x, y, x)
x = 1:5; y = 5:-1:1; spline(x, y).coefs(:,4)
x = 1:10 ; y = 1 + x .^ 2;
polyfit(x, y, 1)
polyfit(x, y, 2)
polyfit(x .^ 2, y, 1)
x = 1:10 ; y = x;
v = polyfit(log(x), log(y), 1); [exp(v(2)) v(1)]
v = polyfit(x, log(y), 1); [exp(v(2)) v(1)]
v = polyfit(log(x), log(y), 1); [v(2) v(1)]
v = polyfit(x, log(y), 1); [v(2) v(1)]
x = 1:10 ; y = exp(x);
v = polyfit(log(x), log(y), 1); [exp(v(2)) v(1)]
v = polyfit(x, log(y), 1); [exp(v(2)) v(1)]
v = polyfit(log(x), log(y), 1); [v(2) v(1)]
v = polyfit(x, log(y), 1); [v(2) v(1)]

```

ans =

0.5403

ans =

-2.0763e-09

ans =

1.0000    1.0000    1.0000    1.0000    1.0000

ans =

5.0000    4.0000    3.0000    2.0000    1.0000

ans =

5    4    3    2    1

ans =

5  
4  
3

---

2

ans =

11.0000 -21.0000

ans =

1.0000 0.0000 1.0000

ans =

1.0000 1.0000

ans =

1 1

ans =

1.2753 0.2304

ans =

0.0000 1.0000

ans =

0.2432 0.2304

ans =

0.6459 3.9307

ans =

1.0000 1.0000

ans =

-0.4371 3.9307

ans =

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0.0000 1.0000

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