
```

A = [1 0 2;
      0 3 1;
      2 2 -1];

B = [0 1 1;
      2 -2 0;
      1 2 3];

C = [2 1 ;
      -1 1;
      1 2];

A3 = [4 2 3 1;
       2 5 6 2;
       0 0 1 3;
       -1 -2 9 8];

A5 = [1 2 3;
       2 1 2;
       -1 0 1];

B5 = [1 4 2;
       2 2 1;
       -1 1 4];

f1a = @() A * B;
f1b = @() B * A;
f1c = @() (A') * (B');
f1d = @() (A + (B .* 3)) * C;
f3  = @() inv(A3);
f5a = @() det(A5);
f5b = @() det(B5);

disp("1a"), disp(f1a())
disp("1b"), disp(f1b())
disp("1c"), disp(f1c())
disp("1d"), disp(f1d())
disp("3"), disp(f3())
disp(" => A3 * A3^-1 = "), disp(A3 * f3())
disp("5a"), disp(f5a())
disp("5b"), disp(f5b())

1a)
      2      5      7
      7     -4      3
      3     -4     -1

1b)
      2      5      0
      2     -6      2
      7     12      1

```

1c)

2	2	7
5	-6	12
0	2	1

1d)

4	14
16	5
10	29

3)

0.3113	-0.1324	0.0368	-0.0196
-0.1324	0.2059	0.2206	-0.1176
0.0074	0.0441	-0.3456	0.1176
-0.0025	-0.0147	0.4485	-0.0392

=> A3 * A3^-1 =

1.0000	-0.0000	0.0000	-0.0000
0.0000	1.0000	0.0000	-0.0000
0.0000	0	1.0000	0
0.0000	-0.0000	0	1.0000

5a)

-4

5b)

-21

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