```
A = Matrix (3,3) =
200
020
0 0 2
B = Matrix (3,3) =
3 0.5 0
0 3 4
0 0 3
A+B = Matrix (3,3) =
5 0.5 0
0 5 4
0 0 5
A-B = Matrix (3,3) =
-1 -0.5 0
0 -1 -4
0 0 -1
A*B = Matrix (3,3) =
6 1 0
0 6 8
0 0 6
B+A = Matrix (3,3) =
5 0.5 0
0 5 4
0 0 5
B-A = Matrix (3,3) =
1 0.5 0
0 1 4
001
B*A = Matrix (3,3) =
6 1 0
0 6 8
0 0 6
C=-B = Matrix (3,3) =
-3 -0.5 -0
-0 -3 -4
-0 -0 -3
C+=A+B = Matrix (3,3) =
2 0 0
020
0 0 2
C -= B = Matrix (3,3) =
-1 -0.5 0
```

```
0 -1 -4
0 0 -1
D = Matrix (3,3) =
-1 -0.5 0
0 -1 -4
0 0 -1
D+=A = Matrix (3,3) =
0 -0.5 0
0 0 -4
000
D-=A = Matrix (3,3) =
-1 -0.5 0
0 -1 -4
0 0 -1
scalar = 10.5
D^*=scalar = Matrix (3,3) =
-10.5 -5.25 0
0 -10.5 -42
0 0 -10.5
data=v*(A*B+D*C*v) = 530.25
A = Matrix (3,3) =
100
0 1 0
0 0 1
B = Matrix (3,3) =
3 0.5 0
0 3 4
0 0 3
C.add(A,B) = Matrix (3,3) =
4 0.5 0
0 4 4
0 0 4
C.add(B,A) = Matrix (3,3) =
4 0.5 0
0 4 4
0 0 4
C.subs(A,B) = Matrix (3,3) =
-2 -0.5 0
0 -2 -4
0 0 -2
C.subs(B,A) = Matrix (3,3) =
2 0.5 0
```

```
0 2 4
002
C.mult(A,B) = Matrix (3,3) =
3 0.5 0
0 3 4
0 0 3
C.mult(B,A) = Matrix (3,3) =
3 0.5 0
0 3 4
0 0 3
C.mult(B,D) = Matrix (3,3) =
-31.5 -21 -21
0 -31.5 -168
0 0 -31.5
C.multElem(A,B) = Matrix (3,3) =
3 0 0
0 3 0
0 0 3
C.multElem(B,A) = Matrix (3,3) =
3 0 0
0 3 0
0 0 3
C.multElem(B,D) = Matrix (3,3) =
-31.5 -2.625 0
0 -31.5 -168
0 0 -31.5
A = Matrix (3,3) =
100
0 1 0
001
B = Matrix (3,3) =
3 0.5 0
0 3 4
0 0 3
D.add(A,B) = Matrix (3,3) =
4 0.5 0
0 4 4
0 0 4
D.add(B,A) = Matrix (3,3) =
4 0.5 0
0 4 4
0 0 4
```

```
D.subs(A,B) = Matrix(3,3) =
-2 - 0.50
0 -2 -4
0 0 -2
D.subs(B,A) = Matrix(3,3) =
2 0.5 0
0 2 4
0 0 2
D.mult(A,B) = Matrix (3,3) =
3 0.5 0
0 3 4
0 0 3
D.mult(B,A) = Matrix (3,3) =
3 0.5 0
0 3 4
0 0 3
D.mult(B,D) = Matrix (3,3) =
0 1.5 2
0 0 12
000
D.mult(A,C) = Matrix (3,3) =
-31.5 -2.625 0
0 -31.5 -168
0 0 -31.5
D.multElem(A,B) = Matrix (3,3) =
3 0 0
0 3 0
0 0 3
D.multElem(B,A) = Matrix (3,3) =
3 0 0
0 3 0
0 0 3
D.multElem(B,D) = Matrix (3,3) =
900
090
0 0 9
D.multElem(A,C) = Matrix (3,3) =
-31.5 -0 0
0 -31.5 -0
0 0 -31.5
```