```
cvx_solver sdpt3
 2
 3 % 2
4 \mid A = [1, 5/2, -1/2; 5/2, 8, 0; -1/2, 0, 9];
 5 cvx_begin
     variables x(3) y
     minimize quad_form(x, A) + \dots
7
8
          8*(abs(x(1)-1) + abs(x(2)+3) + abs(x(3)-5))
     subject to
9
        [5, y; y, x(2)+1] == semidefinite(2);
10
        [y, x(3); x(3), 1] == semidefinite(2);
11
12 cvx_end
```

Results:

Incorrect number or types of inputs or outputs for function vec.

```
Error in <a href="mailto:cvx/quad_form">cvx/quad_form</a> (line 43)

v = vec(v);

Error in <a href="mailto:minimize">minimize</a> (line 14)

x = evalin( 'caller', sprintf( '%s ', varargin{:
```

3.

```
cvx_solver sdpt3
 2
 3 % 3
 4 cvx_begin
 5
     variables x(3)
      minimize 2*x(1) + 3*x(2) - x(3) + ...
 6
 7
          norm([1/sqrt(3)*x(1), x(2)-5, sqrt(6)*
    (x(3)-1/3*x(1)), 1], 2)
 8
      subject to
 9
        x(1)+x(2) \le 2;
        x(3)+x(2) \le 2;
10
        x(1)+x(3) \le 2;
11
```

```
12 x(1)>=0;
13 x(2)>=0;
14 cvx_end
```

Results:

Optimal value (cvx_optval): +4.6547