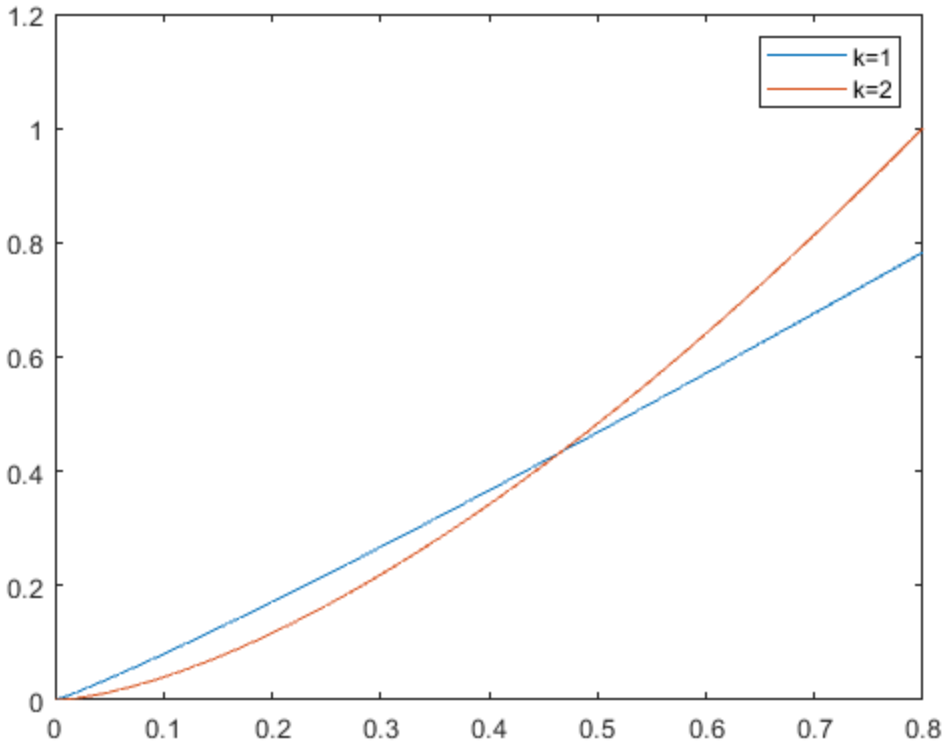
```
syms x y z % to identify x, y, z as variables.
[x,y,z]= solve (x-y-8,x+5*z-2,x+3*y-z-1)


p=[1 -1 3]
sol= roots(p)


t = 0 : 0.01 : 0.8;
tic
%x = zeros(size(t));
for k = 1 : 2
 x = sqrt(k)*t.^sqrt(1.2*k)
plot(t,x)
hold on
end
legend('k=1','k=2')
```

```
x =

127/21


y =

-41/21


z =

-17/21


p =

     1    -1     3


sol =

   0.5000 + 1.6583i
   0.5000 - 1.6583i


x =

  Columns 1 through 7

         0    0.0064    0.0138    0.0215    0.0294    0.0376    0.0459

  Columns 8 through 14
```

```
    0.0543    0.0629    0.0715    0.0803    0.0891    0.0980    0.1070

  Columns 15 through 21

    0.1160    0.1252    0.1343    0.1435    0.1528    0.1621    0.1715

  Columns 22 through 28

    0.1809    0.1904    0.1999    0.2094    0.2190    0.2286    0.2383

  Columns 29 through 35

    0.2480    0.2577    0.2674    0.2772    0.2870    0.2969    0.3067

  Columns 36 through 42

    0.3166    0.3266    0.3365    0.3465    0.3565    0.3665    0.3766

  Columns 43 through 49

    0.3866    0.3967    0.4068    0.4170    0.4271    0.4373    0.4475

  Columns 50 through 56

    0.4577    0.4680    0.4783    0.4885    0.4988    0.5092    0.5195

  Columns 57 through 63

    0.5299    0.5402    0.5506    0.5610    0.5714    0.5819    0.5923

  Columns 64 through 70

    0.6028    0.6133    0.6238    0.6343    0.6449    0.6554    0.6660

  Columns 71 through 77

    0.6766    0.6872    0.6978    0.7084    0.7190    0.7297    0.7404

  Columns 78 through 81

    0.7510    0.7617    0.7724    0.7831


x =

  Columns 1 through 7

         0    0.0011    0.0033    0.0062    0.0097    0.0136    0.0181

  Columns 8 through 14

    0.0230    0.0283    0.0339    0.0399    0.0463    0.0530    0.0600

  Columns 15 through 21
```

```
  0.0673    0.0748    0.0827    0.0909    0.0993    0.1079    0.1169

Columns 22 through 28

  0.1260    0.1355    0.1451    0.1550    0.1651    0.1755    0.1860

Columns 29 through 35

  0.1968    0.2078    0.2190    0.2304    0.2420    0.2539    0.2659

Columns 36 through 42

  0.2781    0.2905    0.3031    0.3159    0.3288    0.3420    0.3553

Columns 43 through 49

  0.3689    0.3825    0.3964    0.4105    0.4247    0.4391    0.4536

Columns 50 through 56

  0.4683    0.4832    0.4983    0.5135    0.5289    0.5444    0.5601

Columns 57 through 63

  0.5760    0.5920    0.6082    0.6245    0.6410    0.6576    0.6744

Columns 64 through 70

  0.6913    0.7084    0.7256    0.7429    0.7605    0.7781    0.7959

Columns 71 through 77

  0.8138    0.8319    0.8501    0.8685    0.8870    0.9057    0.9244

Columns 78 through 81

  0.9433    0.9624    0.9816    1.0009
```



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