```
>> Q1.Kp

ans =

    0.0625

>> Q1.D

ans =

  0.0625 s + 1
  ------------
       s

Continuous-time transfer function.

>> Q2.K

ans =

    0.1571

>> Q2.Z

ans =

  -92.8000

>> Q2.X

ans =


  -802.64 s (s-92.8) (s+130) (s+60) (s+57) (s+16) (s+450) (s^2 + 52s + 1352)


  ------------------------------------------------------------------------

  s (s+57) (s+57.18) (s+130.2) (s+16) (s+450) (s^2 + 11.24s + 51.79)

                                      (s^2 + 52s + 1352) (s^2 + 56.4s + 1507)


Continuous-time zero/pole/gain model.

>> Q3.Kp

ans =

    0.0762
```

```
>> Q3.Kd

ans =

   8.0342e-04

>> Q3.D

ans =

  0.2851 s^2 + 20.81 s + 260
  --------------------------
         s^2 + 260 s

Continuous-time transfer function.

>> Q4.Ku

ans =

    2.1626

>> Q4.X

ans =


  1.4619e05 s (s+57)^2 (s+60) (s+130) (s+260) (s+450) (s+16)^2 (s^2 + 52s + 1352)


  ------------------------------------------------------------------------------

     s (s+260) (s+254.9) (s+450.7) (s+139.6) (s+57)^2 (s+33.71) (s+16)^2

                                        (s^2 + 52s + 1352) (s^2 + 13.07s + 949)


Continuous-time zero/pole/gain model.

>> Q5.Ku

ans =

    3.3179

>> Q5.X

ans =


  1.5129e05 s (s+57) (s+60) (s+130) (s+260) (s+450) (s+16) (s^2 + 52s + 1352)^2
```

```
  ---------------------------------------------------------------------------

    s (s+260) (s+254.1) (s+450.7) (s+143.1) (s+58.17) (s+57) (s+16)

                                  (s^2 + 6.938s + 557.2) (s^2 + 52s + 1352)^2

Continuous-time zero/pole/gain model.

>> Q6.K

ans =

    0.5972

>> Q6.Z

ans =

 -24.0000 + 0.5000i -24.0000 - 0.5000i

>> Q6.X

ans =

              1.2779e05 (s+60) (s+130) (s+450) (s^2 + 48s + 576.3)

  ---------------------------------------------------------------------------

  (s+450.6) (s+255) (s+141) (s+57.8) (s^2 + 29.3s + 260.5) (s^2 + 31.3s + 1060)


Continuous-time zero/pole/gain model.

>>
```