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```
close all
clear all
clc

% Ben Ridenbaugh
% Homework 3
```

Chapter 2

Problem 2

```
a=[sqrt(15)*10^3,25/(14-(6^2)),log(35)/(.4^3),sind(65)/cosd(80),129,
(cos(pi/20))^2]
```

```
a =
```

```
1.0e+03 *
    3.8730   -0.0011    0.0556    0.0052    0.1290    0.0010
```

Problem 4

```
a=[32/(3.2^2),sind(35)^2,6.1,log(29)^2,.00552,log(29)^2,133]
```

```
a =
```

```
    3.1250    0.3290    6.1000   11.3387    0.0055   11.3387   133.0000
```

Problem 7

```
a=linspace(1,43,6)
```

a =

1.0000 9.4000 17.8000 26.2000 34.6000 43.0000

Problem 10

a=linspace(-34,-7,9)

a =

Columns 1 through 7

-34.0000 -30.6250 -27.2500 -23.8750 -20.5000 -17.1250 -13.7500

Columns 8 through 9

-10.3750 -7.0000

Chapter 3

Problem 3

```
x=[1.5,2.5,3.5,3.5,5.5,6.6];  
y=((x+7).^4)/((x+1).*sqrt(x))
```

y =

1.6418e+03

Problem 15

```
r=1.6*10^3;  
s=14.2;  
t=[1,2,3,4,5];  
x=[0,2,4,6,8];  
y=[3,6,9,12,15];  
G=x.*t+(r/s.^2).*((y.^2)-x)*t  
R=((r*((-x.*t)+(y.*t.^2))/15)-((s.^2).*(y-.5*x^2)*t))
```

Error using *
Inner matrix dimensions must agree.

Error in HW2 (line 27)
G=x.*t+(r/s.^2).*((y.^2)-x)*t

Problem 21

```
g=9.81;  
a=70;  
v0=162;  
t=[1,6,11,31];  
x_t=v0*cosd(a).*t;  
y_t=v1*sind(a).*t-(.5*g*t.^2);  
r_t=sqrt((x_t^2)+(y_t^2))  
theta=atan(y_t/x_t)
```

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