```
clc
clear
disp('Name and Date:         Jeremy Stark 01/30/2019');
disp('Course and Section:    ENGR297 and class # 22749');
disp('Problem:               Matlab Homework 3');
disp('Statement:             Using matlab to work with matrices');
disp(' ');

jeremy = [5 2 4; 1 7 -3; 6 -10 0];
joseph = [11 5 -3; 0 -12 4; 2 6 1];
stark = [7 14 1; 10 3 -2; 8 -5 9];
disp('Chapter 3 problem 14');
disp('a)');
disp('jeremy + joseph');
disp(jeremy+joseph);

disp('joseph + jeremy');
disp(joseph+jeremy);

disp('b)');
disp('jeremy + (joseph + stark)');
disp(jeremy + (joseph + stark));

disp('(jeremy + joseph) + stark');
disp((jeremy + joseph) + stark);

disp('c)');
disp('5*(jeremy + stark)');
disp(5*(jeremy + stark));

disp('5*jeremy + 5*stark');
disp(5*jeremy + 5*stark);

disp('d)');
disp('jeremy*(joseph + stark)');
disp(jeremy*(joseph + stark));

disp('jeremy*joseph + jeremy*stark');
disp(jeremy*joseph + jeremy*stark);
```

```
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Chapter 3 problem 14
a)
jeremy + joseph
         16.00          7.00          1.00
          1.00         -5.00          1.00
          8.00         -4.00          1.00

joseph + jeremy
         16.00          7.00          1.00
```

```
          1.00         -5.00          1.00
          8.00         -4.00          1.00

b)
jeremy + (joseph + stark)
         23.00         21.00          2.00
         11.00         -2.00         -1.00
         16.00         -9.00         10.00

(jeremy + joseph) + stark
         23.00         21.00          2.00
         11.00         -2.00         -1.00
         16.00         -9.00         10.00

c)
5*(jeremy + stark)
         60.00         80.00         25.00
         55.00         50.00        -25.00
         70.00        -75.00         45.00

5*jeremy + 5*stark
         60.00         80.00         25.00
         55.00         50.00        -25.00
         70.00        -75.00         45.00

d)
jeremy*(joseph + stark)
        150.00         81.00         34.00
         58.00        -47.00        -18.00
          8.00        204.00        -32.00

jeremy*joseph + jeremy*stark
        150.00         81.00         34.00
         58.00        -47.00        -18.00
          8.00        204.00        -32.00
```

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```
clc
clear
disp('Name and Date:          Jeremy Stark 01/30/2019');
disp('Course and Section:     ENGR297 and class # 22749');
disp('Problem:                Matlab Homework 3');
disp('Statement:              Using matlab to calculate costs of lab supplies');
disp(' ');

multimeter_stark = 25.87;
wires_jeremy = 13.74;
surge_protector = 12.95;
protoboard_stark = 14.36;

format BANK;

disp('A)');
kit_stark = 2*wires_jeremy + surge_protector + 3*protoboard_stark + multimeter_stark;
disp(kit_stark);

disp('B)');
kittax_jeremy = kit_stark + (.075 * kit_stark);
disp(kittax_jeremy);

disp('C)');
kitround_stark = round(kittax_jeremy);
disp(kitround_stark);
```

```
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Course and Section:     ENGR297 and class # 22749
Problem:                Matlab Homework 3
Statement:              Using matlab to calculate costs of lab supplies

A)
        109.38

B)
        117.58

C)
        118.00
```

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```
clc
clear
disp('Name and Date:         Jeremy Stark 01/30/2019');
disp('Course and Section:    ENGR297 and class # 22749');
disp('Problem:               Matlab Homework 3');
disp('Statement:             Using matlab prove trigonometric equations as well as generate an
d manipulate vectors.');
disp(' ');

disp('#11');

alpha = (5*pi)/9;
beta = pi/7;

left_stark = cos(alpha) - cos(beta)
right_stark = 2*sin((alpha + beta)/2) * sin((beta - alpha)/2)

disp(' ');

disp('#8');

Afirst = 3:4:51
Asecond(1:7) = [Afirst(1:4) Afirst(11:13)]
```

```
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Course and Section:    ENGR297 and class # 22749
Problem:               Matlab Homework 3
Statement:             Using matlab prove trigonometric equations as well as generate and mani
pulate vectors.

#11

left_stark =

         -1.07


right_stark =

         -1.07


#8

Afirst =

  Columns 1 through 5

          3.00          7.00         11.00         15.00         19.00

  Columns 6 through 10

         23.00         27.00         31.00         35.00         39.00
```

```
  Columns 11 through 13

        43.00         47.00         51.00
```

```
Asecond =

  Columns 1 through 5

         3.00          7.00         11.00         15.00         43.00

  Columns 6 through 7

        47.00         51.00
```

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