4>a>

```
function X=trig()
Y=sin((pi/6));
Z=cos(pi);
U=tan(pi/2);
disp('the value of sin(pi/6)');
display(Y);
disp('the value of cos(pi)');
display(Z);
disp('the value of tan(pi/2)');
display(U);
end
```

result:
the value of sin(pi/6)

Y =

0.500000000000000

the value of cos(pi)

Z =

-1

the value of tan(pi/2)

U =

1.633123935319537e+16

4>b>

```
function X = trig_id()
Y=sin(pi/6);
Z=cos(pi/6);
X=(Y.^2)+(Z.^2);
disp('the value of sin(pi/6).^2 + cos(pi/6).^2=');
disp(X);
end
```

ans>
the value of sin(pi/6).^2 + cos(pi/6).^2=
1
4>c>

```
function X=trig2()
x=32*pi;
y=(cosh(x).^2)-(sinh(x).^2);
disp('the value of exp');
display(y);
end
```

ans:-

the value of exp

y =

0