

1809810

Mathew Thomas

53%

Agree.

1. >> x=2.3;y=3.1; ✓

>> x^2-y ✓

ans = ✓

2.1900

>> (4*y)^(x-y) ✓

ans = ✓

0.1334

>> exp(3*x*y) ✓

ans =

1.9479e+09

>> log10(y^x-x) ✓

ans =

1.0490

2. >> q=[2/sqrt(8) 2/sqrt(8); 2/sqrt(8) -2/sqrt(8)]

q =

0.7071 0.7071

0.7071 -0.7071

>> x=[3 4;-1 0]

x =

3 4

-1 0

>> t = q^ - 1

t =

0.7071 0.7071

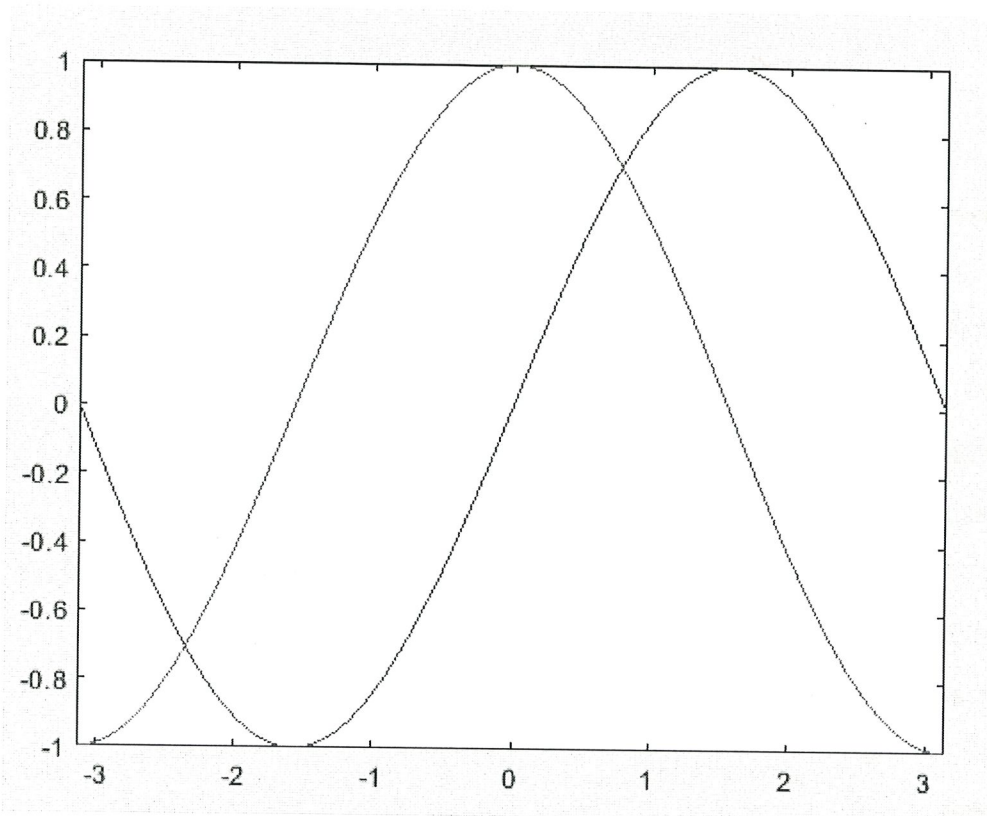
0.7071 -0.7071

3. >> fplot('sin(x)',[-pi,pi])

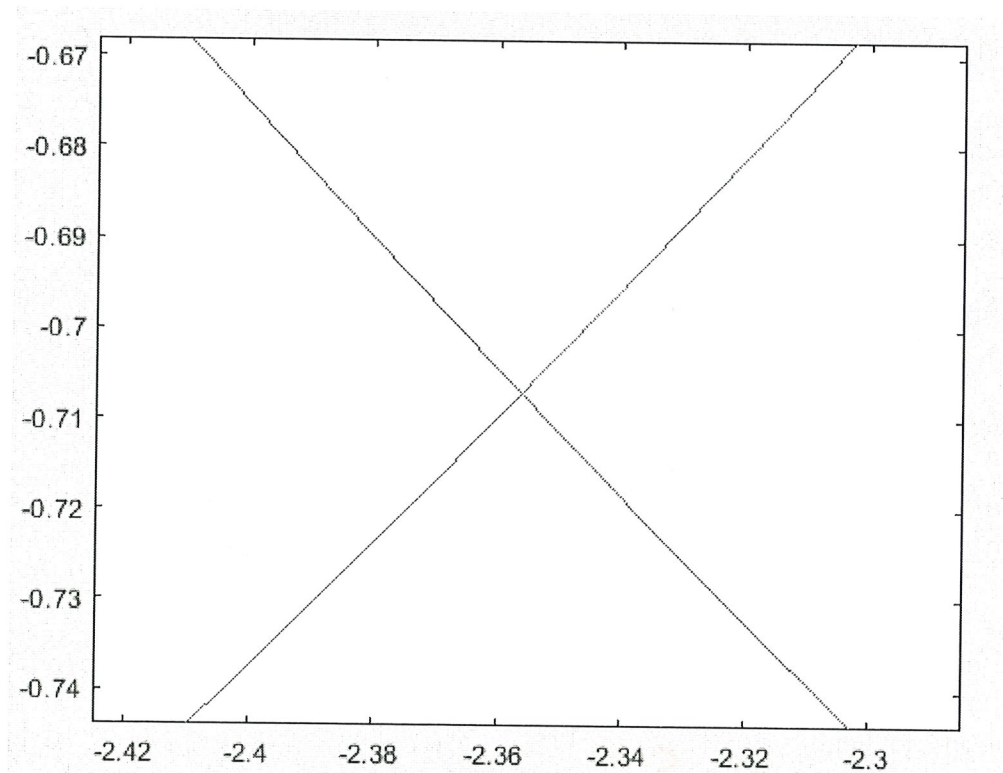
>> hold

Current plot held

>> fplot('cos(x)',[-pi,pi])



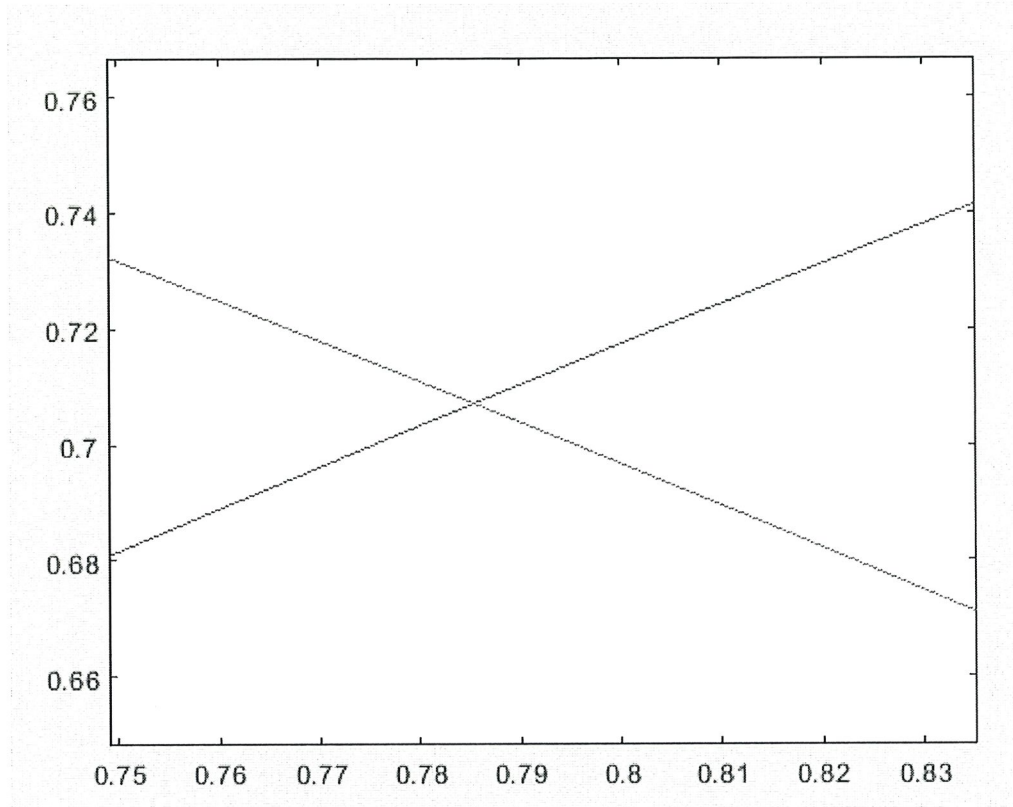
3 ✓



2 ✓

Intersection $(-2.36, -0.71)$

3



Intersection (0.78, 0.71)

3

$$\frac{25}{25}$$

2

4. >> syms x
>> solve(2*x^2 - 3*x + 1 - 4*x^3)
ans =
root(z^3 - z^2/2 + (3*z)/4 - 1/4, z, 1)
root(z^3 - z^2/2 + (3*z)/4 - 1/4, z, 2)
root(z^3 - z^2/2 + (3*z)/4 - 1/4, z, 3)

4

$$\frac{4}{20}$$

5. >> syms x y a b
>> y=3*exp(x)*sin(x)
y =
3*exp(x)*sin(x)

6

$$\frac{6}{25}$$

