

35% *Agree ✓*
AT

1)

A) >> x=2.3

x =

2.3000

>> y=3.1

y =

3.1000

>> x^2-y

ans =

2.1900

B) $(4*y)^{x-y}$

ans =

324.1426

C) >> exp(3*x*y)

ans =

1.9479e+09

D) log10 ((y^x)-x)

ans =

1.0490

2) >> clear all

>> Q=[2/sqrt(8) 2/sqrt(8);2/sqrt(8) -2/sqrt(8)];X=[3 4;-1 0]

X =

3 4

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-1 0

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

4

✓

Q =

0.7071 0.7071

0.7071 -0.7071

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

2

✓

X =

3 4

-1 0

>>

>> FSQ=Q^-1,

FSQ =

2

✓

0.7071 0.7071

0.7071 -0.7071

>> Q^-1

ans =

✓

0.7071 0.7071

0.7071 -0.7071

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```
>> Q*x*Q^7
```

Undefined function or variable 'x'.

Did you mean:

```
>> Q*X*Q^7
```

ans =

3.0000 -1.0000

4.0000 0

```
>> (Q*X*Q^7)^6
```

ans =

-91.0000 45.0000

-180.0000 44.0000

3) >> clf

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

Warning: Char input to fplot will be removed in a future release. Use fplot(@(x)sin(x)) instead.

> In fplot (line 105)

```
>> hold
```

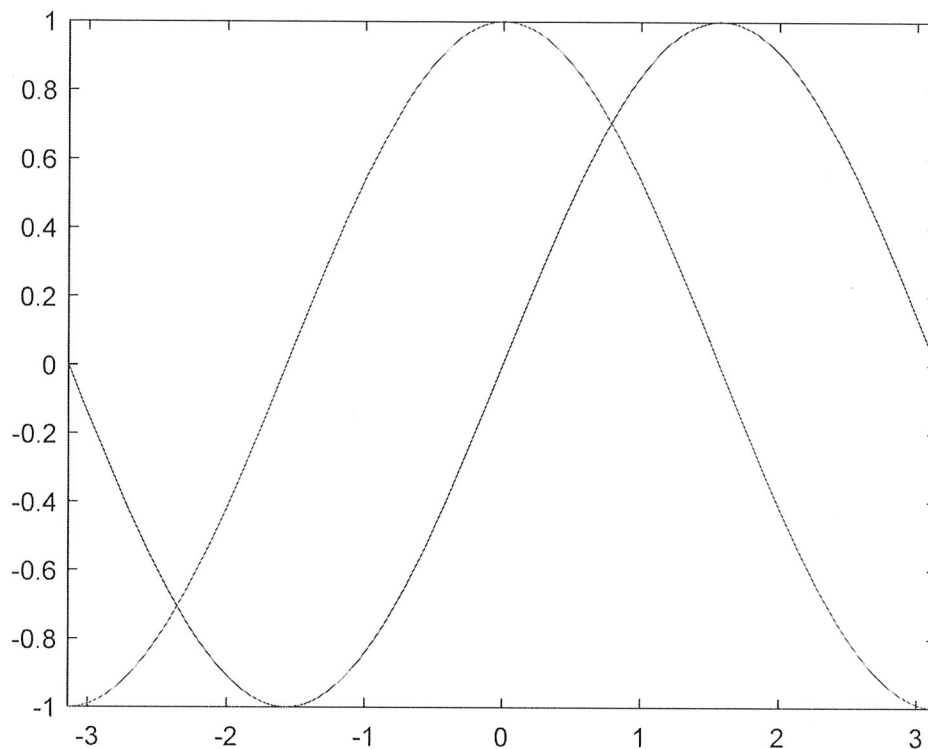
Current plot held

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

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Warning: Char input to fplot will be removed in a future release. Use fplot(@(x)cos(x)) instead.

> In fplot (line 105)



4) solve $4x^3 + 3x - 2x^2 - 1$

3

ans =

$\text{root}(z^3 - z^2/2 + (3z)/4 - 1/4, z, 1)$

$\text{root}(z^3 - z^2/2 + (3z)/4 - 1/4, z, 2)$

$\text{root}(z^3 - z^2/2 + (3z)/4 - 1/4, z, 3)$

5)

$\frac{0}{25}$

$\frac{3}{20}$

$\frac{15}{25}$