

Mathcad Tutorial for Econ 301

You type:

Result:

a:10

a := 10

b:2*a

b := 2·a

b=

b = 20

Where you see " _ " press Space Bar:

c:a/b_+a^2_+b^2

c := $\frac{a}{b} + a^2 + b^2$

c=

c = 500.5

Change a to 1 above. See b, c change.

F(X, Y) : \X*Y

F(X, Y) := $\sqrt{X \cdot Y}$

F(4, 9)=

F(4, 9) = 6

$G(X, Y) := X^{0.4} \cdot Y^{0.6}$

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$x := 0, 0.01 ; 2$

$X := 0, 0.01 .. 2$

$x =$

$G(X, 1) =$

$X =$

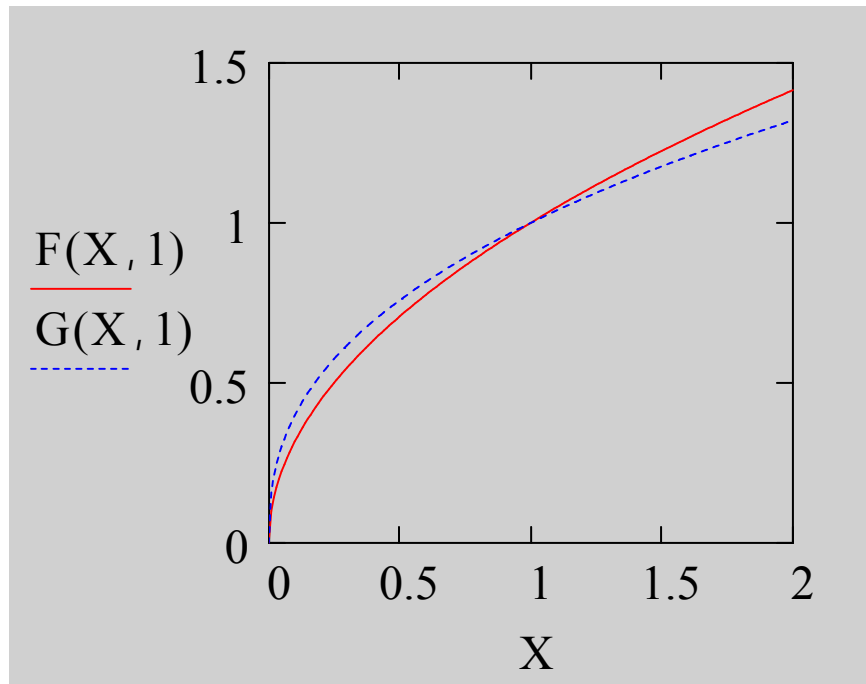
0
0.01
0.02
0.03
0.04
0.05

$G(X, 1) =$

0
0.158
0.209
0.246
0.276
0.302

[Insert] [Graph] [X-Y Plot]

$F(X, 1),$
 $G(X, 1)$



x

Double-click on plot to format.

Find X so that $F(X,1) = G(X,1)$

"Guess for X:

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X:0.9

X := 0.9

Given

Given

$F(X,1)$ [Ctrl=] $G(X,1)$

$F(X,1) = G(X,1)$

X:Find(X)

X := Find(X)

X=

X = 1

Check your answer!

$F(X,1) =$

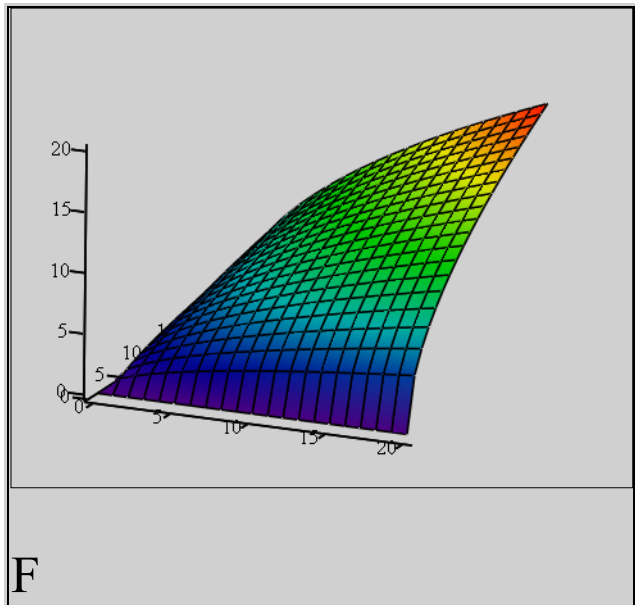
$F(X,1) = 1$

$G(X,1) =$

$G(X,1) = 1$

Plot $F(X,Y)$ varying both X,Y

[Insert] [Graph] [Surface Plot]



By default the ranges for X,Y are -5 to 5 which causes complex results, and an error.

We will make the ranges positive, and the error will go away....

F

The function did not evaluate to a pure real value.

Double-click on plot to format:

