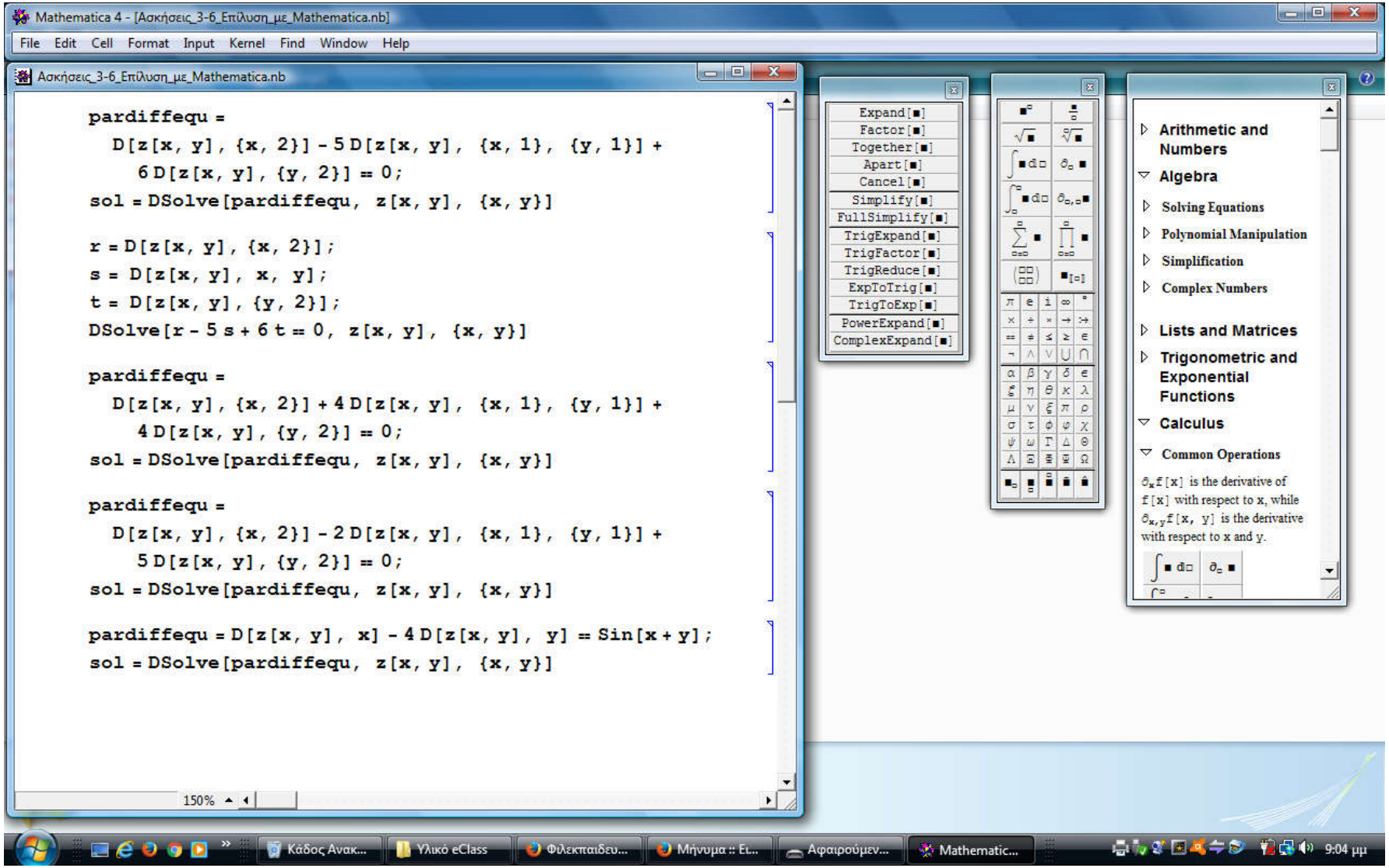
Mathematica 4 - [Ασκήσεις_3-6_Επίλυση_με_Mathematica.nb]
File Edit Cell Format Input Kernel Find Window Help
Ασκήσεις_3-6_Επίλυση_με_Mathematica.nb
pardiffequ =
D[z[x, y], {x, 2}] - 5 D[z[x, y], {x, 1}, {y, 1}] +
6 D[z[x, y], {y, 2}] == 0;
sol = DSolve[pardiffequ, z[x, y], {x, y}]
r = D[z[x, y], {x, 2}];
s = D[z[x, y], x, y];
t = D[z[x, y], {y, 2}];
DSolve[r - 5 s + 6 t == 0, z[x, y], {x, y}]
pardiffequ =
D[z[x, y], {x, 2}] + 4 D[z[x, y], {x, 1}, {y, 1}] +
4 D[z[x, y], {y, 2}] == 0;
sol = DSolve[pardiffequ, z[x, y], {x, y}]
pardiffequ =
D[z[x, y], {x, 2}] - 2 D[z[x, y], {x, 1}, {y, 1}] +
5 D[z[x, y], {y, 2}] == 0;
sol = DSolve[pardiffequ, z[x, y], {x, y}]
pardiffequ = D[z[x, y], x] - 4 D[z[x, y], y] == Sin[x + y];
sol = DSolve[pardiffequ, z[x, y], {x, y}]
150%
Expand[■]
Factor[■]
Together[■]
Apart[■]
Cancel[■]
Simplify[■]
FullSimplify[■]
TrigExpand[■]
TrigFactor[■]
TrigReduce[■]
ExpToTrig[■]
TrigToExp[■]
PowerExpand[■]
ComplexExpand[■]
Arithmetic and Numbers
Algebra
Solving Equations
Polynomial Manipulation
Simplification
Complex Numbers
Lists and Matrices
Trigonometric and Exponential Functions
Calculus
Common Operations
∂x f[x] is the derivative of f[x] with respect to x, while ∂x,y f[x, y] is the derivative with respect to x and y.
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