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Differential Equations with Matlab 3rd Edition Matlab Problem Set F Number 8: Consider the predator-prey model $dx/dt = x(4-3y)$ $dy/dt = y(x-2)$ in which $x \geq 0$ represents the population of the prey and $y \geq 0$ represents the population of the predators. a) Find all critical points of the system.

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Glossary for Differential Equations with MATLAB , 3rd edition
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The generalization to third-order and higher equations is straightforward We will occasionally use the following abbreviations for the first- and second-order derivatives dy , d^2y $Y = dt$ $y = dt^2$ MATLAB provides the solve function for solving ordinary differential equations.

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Equations L.F. Shampine1 and S. Thompson2 1 Mathematics Department, Southern Methodist ... topics are discussed in concrete terms using the programming languages Matlab and Fortran 90/95, so a familiarity with one or both languages would be helpful. ... The jump in the third derivative at $t = 2$ is not noticeable in the plot of $y(t)$. -1 -0.5 0 0 ...