

**Homework: Systems of Nonlinear Equations in Two Variables - Key**

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In Problems 1-6, solve each system.

1.  (2, 1) and (-5, 22)	2.  $\left(\frac{3}{2}, 8\right)$ and $\left(\frac{-1}{3}, \frac{61}{9}\right)$
3.  $xy = 4$ $5x + y = 9$  $(1, 4)$ and $\left(\frac{4}{5}, 5\right)$	4.  $xy = 5$ $x^2 + y^2 = 26$  $(1, 5), (-1, -5), (5, 1), (-5, -1)$
5.  (2, 3) and (8, -3)	6.  $(2, 1), (2, -1), (-2, 1), (-2, -1)$
7.  $(3, 1), (3, -1)$	