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Algebra 2 - Solving Linear-Nonlinear Systems

The video covers the following exercises. Please print this sheet and work along!

Please sketch some ways that a circle and a line can interact:



What is the intersection between:



$$x^2 + y^2 = 25$$
 and $y = \frac{4}{3}x$

$$y = -x^2 + 4$$
 and $y = 2x + 1$

What is the intersection between:

 $x^{2} + y^{2} = 45$ $y^{2} - x^{2} = 27$



 $x^2 + y^2 \le 16$ $x^2 - y^2 > 9$