## **Intersection of Circles & Lines**

1. By solving the equations as a system, find the points common to the line with equation x - y = 6 and the circle with equation  $x^2 + y^2 = 26$ . Graph the line and the circle to show those points.

2. Graph the line given by 5x + 6y = 12 and the circle given by  $x^2 + y^2 = 1$ . Find all solutions to the system of equations

3. Graph the line given by 3x + 4y = 25 and the circle given by  $x^2 + y^2 = 25$ . Find all solutions to the system of equations. Verify your result both algebraically and graphically.

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