SOLVING SIMULTANEOUS EQUATIONS - LINEAR AND SECOND DEGREE

Solve the following simultaneous equations. (Try to solve some using graphing software.)

1 $y = 5x + 6$
  $y = x^2$

2 $y = 3x - 2$
  $y = x^2$

3 $y = x + 5$
  $y = x^2 - 3x$

4 $x + y = 15$
  $y = x^2 - 6x + 1$

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9 $x - y = 1$
$xy = 2$

10 $y = 2x - 5$
$y = x^2 - 4x + 4$

11 $y = 2x - 6$
$x^2 - xy + 2y^2 = 16$

12 $x + y = 5$
$3x^2 + xy - y^2 = 29$

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17 $x + y = 2$
$x^2 + y^2 = 2$

18 $x = 2y - 1$
$3x^2 = x + 2y^2$

19 $x + 2y = -8$
$xy = 8$

20 $y = x + 9$
$y = x^2 - x - 6$