

Solve each by using the quadratic formula. For each equation, state the number of solutions and tell whether the solutions are real or complex, and, if real, whether the solutions are rational or irrational. Also, look at the graph of the function to find the number of x-intercepts.

<p>1. <math>4x^2 + 5x - 6 = 0</math></p>	<p>Number of solutions: _____</p> <p>Real or Complex: _____</p> <p>Rational or Irrational: _____</p> <p>Number of x-intercepts: _____</p>
<p>2. <math>4x^2 + 5x - 2 = 0</math></p>	<p>Number of solutions: _____</p> <p>Real or Complex: _____</p> <p>Rational or Irrational: _____</p> <p>Number of x-intercepts: _____</p>
<p>3. <math>4x^2 + 4x + 1 = 0</math></p>	<p>Number of solutions: _____</p> <p>Real or Complex: _____</p> <p>Rational or Irrational: _____</p> <p>Number of x-intercepts: _____</p>
<p>4. <math>4x^2 + 4x + 5 = 0</math></p>	<p>Number of solutions: _____</p> <p>Real or Complex: _____</p> <p>Rational or Irrational: _____</p> <p>Number of x-intercepts: _____</p>