1) Solve the following [7]
   a) $2a^2 + 3a + 1 = 0$
   b) $2y^2 + 5y - 25 = 0$
   c) $2y^2 - 11y + 5 = 0$
   d) $2a^2 - a - 1 = 0$
   e) $5b^2 + 7b - 6 = 0$
   f) $3x^2 - 16x + 16 = 0$
   g) $9c^2 - 16 = 0$

2) Solve the following, leaving your answers to 3 significant figures. [3]
   a) $3c^2 + 4c - 2 = 0$
   b) $4a^2 - 10a - 8 = 0$
   c) $11b^2 + 4b - 8 = 0$
Solutions for the assessment Solve Quadratics and Quadratic formula

1) a) \( a = -\frac{1}{2} \) or \( a = -1 \)
   
   b) \( y = \frac{5}{2} \) or \( y = -5 \)

   c) \( y = \frac{1}{2} \) or \( y = 5 \)

   d) \( a = -\frac{1}{2} \) or \( a = 1 \)

   e) \( b = \frac{3}{5} \) or \( b = -2 \)

   f) \( x = \frac{4}{3} \) or \( x = 4 \)

   g) \( c = -\frac{4}{3} \) or \( c = \frac{4}{3} \)

2) a) \( c = 0.387 \) or \( c = -1.72 \)

   b) \( a = 3.14 \) or \( a = -0.637 \)

   c) \( b = 0.690 \) or \( b = -1.05 \)