Solving Equations with your Graphing Calculator - KEY

Use your graphing calculator to solve the following equations. Round your answers to 2 decimal places.

1) \[ \frac{5}{6}x - \frac{3}{4} = \frac{7}{8} - \frac{8}{3}x \]
   Answer: 0.46

2) \[ 3x^2 - 7x - 5 = 0 \]
   Answers: -0.57, 2.91

3) \[ \frac{4}{x + 1} = x + 3 \]
   Answers: -4.24, 0.24

4) \[ \sqrt{2x + 9} = 7 \]
   Answer: 20

5) \[ \sqrt{3x + 7} + \sqrt{x + 2} = 2 \]
   Answer: -1.66

6) \[ \sqrt[3]{x^2 - 3x - 4} = 0 \]
   Answers: -1, 4

7) \[ |x^3 - 1| = 4x^2 \]
   Hint: 4 solutions
   Answers: -3.94, -0.54, 0.47, 4.06

8) \[ |x| + \sqrt{x} + \frac{3}{\sqrt[3]{x}} = 5 \]
   Answer: 2.21

9) \[ (x - 1)(x + 2)^2(x - 3) = 2 \]
   Answers: -2.34, -1.59, 0.89, 3.04

10) \[ 2^x = 3 \]
    Answer: 1.58