

**Homework # :Solving Higer Degree of Equations.****No work = No Credit :(**

1 Which values of  $x$  are solutions of the equation  $x^3 + x^2 - 2x = 0$ ?

1)  $0, 1, 2$

3)  $0, -1, 2$

2)  $0, 1, -2$

4)  $0, -1, -2$

2 What is the solution set of the equation  $3x^5 - 48x = 0$ ?

1)  $\{0, \pm 2\}$

3)  $\{0, \pm 2, \pm 2i\}$

2)  $\{0, \pm 2, 3\}$

4)  $\{\pm 2, \pm 2i\}$

3 Solve the equation  $2x^3 - x^2 - 8x + 4 = 0$  algebraically for all values of  $x$ .

4 Solve algebraically for all values of  $x$ :  $x^4 + 4x^3 + 4x^2 = -16x$