

The deadline for all homework assignments is the one specified in Archie before 11:59 pm. As discussed in class, It must be correctly uploaded in order to be graded. Show all your work and justifications.

For Exercises 57–72, solve by using the quadratic formula. ,

$$57. x^2 - 3x - 7 = 0 \quad \left\{ \frac{3 \pm \sqrt{37}}{2} \right\}$$

$$59. y^2 = -4y - 6 \quad \{-2 \pm i\sqrt{2}\}$$

$$61. t(t - 6) = -10 \quad \{3 \pm i\}$$

$$63. -7c + 3 = -5c^2 \quad \left\{ \frac{7 \pm i\sqrt{11}}{10} \right\}$$

$$65. (6x + 5)(x - 3) = -2x(7x + 5) + x - 12 \quad \left\{ \frac{1}{2}, -\frac{3}{10} \right\}$$

$$67. 9x^2 + 49 = 0 \quad \left\{ \pm \frac{7}{3}i \right\}$$

$$69. \frac{1}{2}x^2 - \frac{2}{7} = \frac{5}{14}x \quad \left\{ \frac{5 \pm \sqrt{137}}{14} \right\}$$

$$58. x^2 - 5x - 9 = 0 \quad \left\{ \frac{5 \pm \sqrt{61}}{2} \right\}$$

$$60. z^2 = -8z - 19 \quad \{-4 \pm i\sqrt{3}\}$$

$$62. m(m + 10) = -34 \quad \{-5 \pm 3i\}$$

$$64. -5d + 2 = -6d^2 \quad \left\{ \frac{5 \pm i\sqrt{23}}{12} \right\}$$

$$66. (5c + 7)(2c - 3) = -2c(c + 15) - 35$$

$$68. 121x^2 + 4 = 0 \quad \left\{ \pm \frac{2}{11}i \right\}$$

$$70. \frac{1}{3}x^2 - \frac{7}{6} = \frac{3}{2}x \quad \left\{ \frac{9 \pm \sqrt{137}}{4} \right\}$$