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|                        |                                                                                                                    |                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| $-3x^2 + 27x - 54 = 0$ | $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(-2)(26)}}{2(-2)} = \frac{6 \pm \sqrt{196}}{-4} = \frac{6 \pm 14}{-4}$        | $x_1 = \frac{-9 + 21}{-4} = 2$<br>$x_2 = \frac{-9 - 21}{-4} = -5$   |
| $2x^2 + 10x - 12 = 0$  | $x = \frac{-(-42) \pm \sqrt{(-42)^2 - 4(2)(147)}}{2(2)} = \frac{-42 \pm \sqrt{0}}{4} = \frac{-42 \pm 0}{4}$        | $x_1 = \frac{-18 + 14}{-4} = 1$<br>$x_2 = \frac{-18 - 14}{-4} = 8$  |
| $-2x^2 - 6x + 20 = 0$  | $x = \frac{-(-27) \pm \sqrt{(-27)^2 - 4(-3)(-54)}}{2(-3)} = \frac{-27 \pm \sqrt{0}}{-6} = \frac{-27 \pm 0}{-6}$    | $x_1 = \frac{15 + 1}{-2} = -8$<br>$x_2 = \frac{15 - 1}{-2} = -7$    |
| $-3x^2 - 3x + 18 = 0$  | $x = \frac{-(-9) \pm \sqrt{(-9)^2 - 4(-3)(-30)}}{2(-3)} = \frac{-9 \pm \sqrt{441}}{-6} = \frac{-9 \pm 21}{-6}$     | $x_1 = \frac{-10 + 14}{-4} = 1$<br>$x_2 = \frac{-10 - 14}{-4} = -6$ |
| $3x^2 + 9x - 30 = 0$   | $x = \frac{-(-15) \pm \sqrt{(-15)^2 - 4(-1)(-54)}}{2(-1)} = \frac{15 \pm \sqrt{1}}{-2} = \frac{15 \pm 1}{-2}$      | $x_1 = \frac{3 + 15}{-6} = -3$<br>$x_2 = \frac{3 - 15}{-6} = 2$     |
| $-2x^2 + 18x - 16 = 0$ | $x = \frac{-(-10) \pm \sqrt{(-10)^2 - 4(2)(-12)}}{2(2)} = \frac{-10 \pm \sqrt{196}}{4} = \frac{-10 \pm 14}{4}$     | $x_1 = \frac{-27 + 9}{-6} = 3$<br>$x_2 = \frac{-27 - 9}{-6} = 6$    |
| $-x^2 - 15x - 56 = 0$  | $x = \frac{-(-18) \pm \sqrt{(-18)^2 - 4(-2)(-10)}}{2(-2)} = \frac{-18 \pm \sqrt{396}}{-4} = \frac{-18 \pm 14}{-4}$ | $x_1 = \frac{6 + 14}{-4} = -5$<br>$x_2 = \frac{6 - 14}{-4} = 2$     |
| $3x^2 + 42x + 147 = 0$ | $x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(-3)(18)}}{2(-3)} = \frac{3 \pm \sqrt{225}}{-6} = \frac{3 \pm 15}{-6}$        | $x_1 = \frac{-42 + 0}{6} = -7$<br>$x_2 = \frac{-42 - 0}{6} = -7$    |

|                        |  |
|------------------------|--|
| $-3x^2 + 27x - 54 = 0$ |  |
| $2x^2 + 10x - 12 = 0$  |  |
| $-2x^2 - 6x + 20 = 0$  |  |
| $-3x^2 - 3x + 18 = 0$  |  |
| $3x^2 + 9x - 30 = 0$   |  |
| $-2x^2 + 18x - 16 = 0$ |  |
| $-x^2 - 15x - 56 = 0$  |  |
| $3x^2 + 42x + 147 = 0$ |  |