Quadratics and Other Equations

1. 6x – 12 = 10(x – 4)

2. $\frac{3}{n}+\frac{7}{n}-\frac{5}{n}=3. $Solve for n.

3. Solve the equation: $ \frac{-5}{y+4}+\frac{2}{y-4}=\frac{7}{y^{2}-16}$

4. i(6 - 3i)²

5. (6 + 7i)(6 – 7i)

6. $ \frac{3-2i}{4-3i}$

7. 3 |4x – 10| + 20 = 26

8. Solve: 2 ≥ 3 – 2x > -4

*Solve by factoring.*

9. x ² – 7x + 10 = 0 10. 4x ² + x – 14 = 0

*Solve by completing the square.*

11. x² + x – 8 = 0

12. x² - 18x + 10 = 0

13. 4x² - 20x + 25 = 0

*Solve using the quadratic equation.*

14. 5x² + 13x = 6 15. 16t² – 64t + 0 = 0

*Solve using any method.*

16. 16t² - 64t + 48 = 0 17. $\sqrt{2x-2}$ + $\sqrt{x-4}$ = 6

18. 3x³ – 4x² – 27x + 36 = 0 19. $x+ \sqrt{(5x+19)}$ = -1