

## Section 3.1 – Solving Polynomial Equations

### Problem Set 3

Solve the following equations.

1.  $-24y^2 + 206y + 559 = 0$

2.  $-3s^2 + 7s + 22 = -4s^2 - 4s - 2$

3.  $s^2 + 11s + 28 = 0$

4.  $65x^2 + 159x + 88 = 0$

5.  $b^2 + b - 2 = 0$

6.  $t^2 + t - 56 = 0$

7.  $29a^2 + 313a + 443 = 4a^2 - 2a + 3$

8.  $x^2 + 17x + 72 = 0$

9.  $2t^2 + 5t - 54 = t^2 + 2t$

10.  $b^2 + 13b + 8 = 2b - 2$

11.  $a^2 - 11a + 30 = 0$

12.  $-16x^2 - 123x + 1996 = 4x^2 - x - 2$

13.  $-5x^2 - 69x + 74 = 0$

14.  $16x^2 - 160x + 76 = 0$

15.  $2s^2 - s - 8 = s^2 + 4$

16.  $-13y^2 + 154y + 143 = -4y$

17.  $s^2 - 5s - 24 = -3s$

18.  $-2s^2 - 19s + 75 = 0$

19.  $17b^2 - 287b + 1054 = -3b^2 + 4b$

20.  $5s^2 - 6s - 17 = 4s^2 - 3s + 1$

21.  $27s^2 + 300s + 243 = -3s^2 + 3s$

22.  $27t^2 + 184t + 95 = -2t$

23.  $80b^2 + 952b + 368 = 0$

24.  $s^2 + 5s + 4 = 0$