Solving Equations Involving Hard Trinomials

a) Type 1

    1. $3y^2 + 24y + 45 = 0$             2. $2x^2 + 34x + 132 = 0$

    3. $2a^2 + 7a + 5 = 0$               4. $3t^2 + 14t + 15 = 0$

    5. $3p^2 = -40p - 48$

b) Type 2

    1. $2k^2 - 24k + 70 = 0$           2. $4p^2 - 68p + 168 = 0$

    3. $2c^2 - 23c + 11 = 0$           4. $25y^2 - 20y + 3 = 0$

    5. $14p^2 - 23p = -8$

c) Type 3

    1. $5w^2 + 45w - 210 = 0$        2. $2y^2 + 4y - 96 = 0$

    3. $3r^2 + 20r - 7 = 0$           4. $12y^2 + 7y - 5 = 0$

    5. $42h^2 = -h + 5$

d) Type 4

    1. $5y^2 - 20y - 60 = 0$           2. $5x^2 - 64x - 13 = 0$

    3. $3x^2 - x - 2 = 0$             4. $18a^2 - 5a - 7 = 0$

    5. $40c^2 = 11c + 2$