Name: _____   Date _____

Topic : <u>Solving Factorable Quadratic Equations- Worksheet 1</u>

Factor the following quadratic equations.

Solve for x: $18x^2 + 36x + 10 = 0$

2   Solve for x: $8x^2 + 90x + 250 = 0$

3   Solve for x: $7x^2 + 24x + 20 = 0$

4   Solve for x: $60x^2 - 66x + 6$

5   Solve for x: $625x^2 - 121$

6   Solve for x: $9x^2 - 63x + 20 = 0$

7   Solve for x: $21x^2 + 22x + 5$

8   Solve for x: $9x^2 - 4$

9   Solve for x: $11x^2 - 57x + 10$

10   Solve for x: $20x^2 + 20x + 5$

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Factor the following quadratic equations.

1   Solve for x: $12x^2 + 24x + 12 = 0$

2   Solve for x: $6x^2 + 93x + 45 = 0$

3   Solve for x: $9x^2 + 64x + 60 = 0$

4   Solve for x: $15x^2 - 25x + 10$

5   Solve for x: $121x^2 - 25$

6   Solve for x: $2x^2 - 15x + 25 = 0$

7   Solve for x: $15x^2 + 22x + 8$

8   Solve for x: $25x^2 - 16$

9   Solve for x: $8x^2 - 13x + 5$

10   Solve for x: $4x^2 + 27x + 45$

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Factor the following quadratic equations.

1   **Solve for x:** $5x^2 + 20x + 20 = 0$

2   **Solve for x:** $6x^2 + 19x + 15 = 0$

3   **Solve for x:** $2x^2 + 16x + 30 = 0$

4   **Solve for x:** $8x^2 - 17x + 9$

5   **Solve for x:** $36x^2 - 1$

6   **Solve for x:** $6x^2 - 12x + 6 = 0$

7   **Solve for x:** $10x^2 + 27x + 5$

8   **Solve for x:** $36x^2 - 4$

9   **Solve for x:** $7x^2 - 15x + 8$

10   **Solve for x:** $6x^2 + 38x + 40$

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Factor the following quadratic equations.

1 Solve for x: $9x^2 + 24x + 15 = 0$

2 Solve for x: $3x^2 + 20x + 25 = 0$

3 Solve for x: $6x^2 + 25x + 25 = 0$

4 Solve for x: $10x^2 - 15x + 5$

5 Solve for x: $49x^2 - 1$

6 Solve for x: $7x^2 - 14x + 7 = 0$

7 Solve for x: $20x^2 + 30x + 10$

8 Solve for x: $16x^2 - 9$

9 Solve for x: $6x^2 - 13x + 5$

10 Solve for x: $3x^2 + 17x + 24$

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Factor the following quadratic equations.

1 Solve for x: $10x^2 + 54x + 20 = 0$

2 Solve for x: $7x^2 + 73x + 30 = 0$

3 Solve for x: $9x^2 + 19x + 10 = 0$

4 Solve for x: $13x^2 - 54x + 8$

5 Solve for x: $4x^2 - 1$

6 Solve for x: $5x^2 - 11x + 6 = 0$

7 Solve for x: $19x^2 + 22x + 3$

8 Solve for x: $81x^2 - 4$

9 Solve for x: $3x^2 - 11x + 6$

10 Solve for x: $7x^2 + 39x + 50$