

Name _____
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Date _____
Algebra II

Factoring Trinomials with Substitution

Factor the following expressions completely

1. $(x^2 + 5x)^2 - 2(x^2 + 5x) - 24$

2. $(x^2 - 2x)^2 - 11(x^2 - 2x) + 24$

3. $(x^2 - 3x)^2 - 14(x^2 - 3x) + 40$

4. $(x^2 + 3x)^2 - 8(x^2 + 3x) - 20$

5. $(x^2 - 7x)^2 - 2(x^2 - 7x) - 48$

6. $(4x^2 + 5x)^2 - 5(4x^2 + 5x) - 6$