



Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## MORE FACTORING POLYNOMIALS WORKSHEET

<b>Example:</b> $10x^2 - 25x - 15 = 5(2x^2 - 5x - 3) = 5(2x + 1)(x - 3)$
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Factor the following examples and write prime, if prime.

1.  $5a^2 - 42a - 27$

2.  $8x^2 - 10x + 3$

3.  $6b^2 - 7b - 20$

4.  $2y^2 - 3y - 20$

5.  $12x^2 + 7x + 1$

6.  $5n^2 + 2n + 7$

7.  $3p^2 + 22p - 16$

8.  $2t^2 + 5t - 12$

9.  $3p^2 - 16p + 5$

10.  $24x^2 - 30x + 9$

11.  $18x + 12x^2 + 2x^3$

12.  $3t^3 - 27t$

13.  $15y^2 - 50y + 35$

14.  $12a^3 + 14a^2 - 48a$

15.  $12x^2 - 29xy + 14y^2$

16.  $6m^3 + 54m^2 - 6m$

17.  $3x^2 - 42x + 147$

18.  $16y^5 - 44y^4 + 30y^3$