

Math 1215 HW 7 Name:.....

Multiply & Simplify:

1) $(x - 5)(x + 4)$

2) $(4x - 9)(9x + 4)$

3) $(x - 2)^2$

4) $(3x + 2)^2$

5) $(x + 7)(x - 7)$

Factoring using GCF:

6) $64x^5y^3 - 40x^4y^4 + 32x^3y^4 - 8x^2y^3$

Factor the trinomials

7) $x^2 + 7x + 6$

8) $b^2 - 14b + 45$

Factor using GCF and then factor the trinomial (then check):

9) $4b^2 + 20b + 24$

10) $9r^2 + 90r - 99$

Factor a trinomial with a coefficient for x^2 other than 1

11) $6x^2 + 5x - 4$

12) $7x^2 + 19x - 6$

Factor by using difference of squares

13) $x^2 - 196$

14) $x^2 - 1$

15) $121 - 4b^2$