Learning Activity – Section 2.4 – Factoring Trinomials

Names: Students _____ _____

_____ _____

Factor each trinomial, if possible.

1. $a^2+8a-20$

$(a+10)(a-2)$

2. $12w^2-16w+5$

$(6w-5)(2w-1)$

3. $100y^2-140y+49$

$(10y-7)(10y-7)$

$=(10y-7)^2$

4. $2c^2-7c-15$

$(c-5)(2c+3)$

5. $x^2-12x+32$

$(x-4)(x-8)$

6. $33v^2-18v+2$

Prime

7. $m^2-8m-60$

Prime

8. $64z^2+80z+25$

$(8z+5)(8z+5)$

$=(8z+5)^2$

Learning Activity – Section 2.5 – Factor the Difference of Squares

Names: Students _____ _____

_____ _____

For each binomial, either factor out the GCF, or factor the difference of squares, if possible. If not possible, explain why not.

1. $a^2 - 49$

$a^2 - 7^2$

$= (a-7)(a+7)$

2. $25x^2 + 100$

$25(x^2 + 4)$

3. $c^2 + 144$

No gcd

sum of

two squares.

4. $81 - 64y^2$

$9^2 - (8y)^2$

$= (9 - 8y)(9 + 8y)$

5. $16n^2 - 1$

$(4n)^2 - 1^2$

$(4n-1)(4n+1)$

6. $x^2 + 121x$

$x(x+121)$