Name _____

Due Date _____

Block _____

Factoring Review.

Factor completely:

Example 1:

$x^2+5x+6=(x+2)(x+3)$

$1\cdot 6=6 \quad 1+6=7$

$2\cdot 3=6 \quad 2+3=5$

$-1\cdot -6=6 \quad -1+-6=-7$

$-2\cdot -3=6 \quad -2+-3=-5$

Example 2:

$2x+5x^2=x(2+5x)$

Example 3:

$2x^2+10x+12=2(x^2+5x+6)$

all divisible by 2

$=2(x+2)(x+3)$

Same as Ex 1

Example 3:

$x^2-9=(x+3)(x-3)$

1. x^2-64
2. $x^2-2x-48$
3. $x^2+18x+65$
4. $x^2+17x+72$
5. $x^2+5x-126$
6. $x^2+15x+56$
7. x^2-25
8. $x^2-12x-45$
9. x^2+8x-9
10. $x^2-4x-165$
11. $x^2+2x-15$
12. $x^2+10x-24$
13. $x^2+18x+56$
14. $x^2+12x+36$
15. $x^2-6x-72$
16. $2x^2-16x+14$
17. $3x^2+27x-66$
18. $x^2-10x+16$
19. $x^2-19x+60$
20. $x^2+11x-12$
21. $4x^2-40x+64$
22. $x^2-5x-150$
23. $x^2-21x+104$
24. $6x^2+6x-12$
25. $2x^2-32x+30$
26. $x^2-18x+56$
27. $3x^2+6x-45$
28. x^2-4x-5
29. $x^2+12x+32$
30. $x^2-9x-90$
31. $x^2+11x-26$
32. $2x^2+16x+30$
33. $x^2+20x+91$
34. $x^2+18x+77$
35. $x^2-8x-20$
36. $x^2+12x+27$
37. $3x^2-30x+27$
38. $x^2+6x-40$
39. $4x^2+5x$
40. $2x^2-50$
41. $x^2+6x-112$
42. $x^2-23x+130$
43. x^3-11x^2-26x
44. $2x^3+16x^2-18x$
45. $x^2+9x-52$
46. $x^2+19x+84$
47. $x^2-5x-84$
48. $x^2+23x+126$
49. $6x^4-6x^3-36x^2$
50. $4x^5-36x^3$