

## Factoring Polynomials

Emphasis on Factoring Quadratics with  $a \neq 1$

Completely factor each of the following:

1. $27n^2 + 54n + 24$	2. $7m^2 - 47m - 72$
3. $5n^2 - 19n - 30$	4. $-7x^2 - 80x - 100$
5. $5n^2 + 37n + 14$	6. $7k^2 + 50k + 48$
7. $42m^2 - 264m + 72$	8. $30p^2 - 294p - 60$
9. $35n^2 - 135n + 90$	10. $30r^2 - 96r + 18$

11. $10x^2 + 45x - 405$	12. $-9x^2 - 24x - 7$
13. $4n^2 - 9n + 5$	14. $9p^2 - 38p + 8$
15. $-10x^2 - 19x - 6$	16. $-6b^2 - 13b + 28$
17. $20a^2 - 66a - 108$	18. $60n^2 - 186n - 90$
19. $20b^2 + 78b - 54$	20. $-24x^2 + 102x + 90$