

#1-15, Factor each expression (if possible) by first looking for a GCF, then checking the trinomial.

1. $x^2 + 13x + 40$

2. $x^2 - 6x - 16$

3. $w^2 - w - 2$

4. $k^2 - 5k$

5. $k^2 - 5k - 6$

6. $2x^3 - 14x^2 - 60x$

7. $5x^3 + 10x^2 + 15x$

8. $3x^2y + 13xy^2 + 23$

9. $3w^4 - 39w^3 + 126w^2$

10. $12r^5 - 16r^3$

11. $2x^2y + 10xy - 48y$

12. $y^2 - 21y + 20$

#16-21, Factor each polynomial with 4 terms by grouping, if possible.

16. $x^3 + 3x^2 + 2x + 6$

17. $12n^3 - 6n^2 - 10n + 5$

18. $3p^3 - 2p^2 - 12p + 8$

19. $4c^3 + 3c^2 + 15c + 24$