

FACTORING POLYNOMIALS WORKSHEET**Factor out the GCF from each polynomial.**

1. $-16x^4 - 32x^3 - 80x^2$

2. $14x^5 - 24x^4$

3. $x^3 + 3x$

4. $-43x^2 + 387x$

5. $-6x^5 + 3x^3$

6. $96x^3 - 48x^2 + 60x$

7. $33x^2 + 363x$

8. $-3x^6 + 15x^4$

Factor Completely.

9. $x^2 - 3x - 88$

10. $x^2 - 16x + 48$

11. $x^2 + 11x + 30$

12. $x^2 - 14x + 33$

13. $x^2 + x - 30$

14. $x^2 - 3x - 70$

15. $x^2 + 8x - 9$

16. $x^2 - 16x + 55$

Factor each trinomial.

17. $3x^2 - 20x + 28$

18. $15y^4 + 26y^3 + 7y^2$

19. $6x^2 + 17x + 12.$

20. $6y^2 + 7y - 24$

21. $24x^4 + 10x^3 - 4x^2$

22. $16r^2 - 16r - 12$

23. $4x^2 - 20x + 25$

24. $4x^2 + 7x + 3$