

Name: _____

Date: _____

Pull out the biggest number AND the smallest power shared by every term. Check by re-distributing. Last two are challenge problems

1. Factor $6x + 9$.

show your work

2. Factor $4x^2 + 8x$.

show your work

3. Factor $10x - 15$.

show your work

4. Factor $x^3 + 5x^2$.

show your work

5. Factor $12x^3 - 18x^2$.

show your work

6. Factor $3x^2 + 24x$.

show your work

7. Factor $7x^4 - 14x^2 + 21x$.

show your work

8. Factor $3x^2 = 24x$ into solved form:
 $3x^2 - 24x = 0$, then factor. (Trainer
echo - Aug 2025 Q10!)

show your work

9. Factor $-8x^3 - 12x^2$ by pulling out a **NEGATIVE** GCF. ★ CHALLENGE

show your work

10. Factor $x^3 - 36x$ completely. ★ CHALLENGE
(Trainer echo - June 2025 Q30!)

show your work