Kerry Ojakian's MTH 28.5 Class
Class Assignment #19

Factor out the GCF.

1. $20A + 30yA =$

2. $30xA - 5A =$

3. $x(x+1) - 5(x+1) =$

4. $9(y-1) - 5x(y-1) =$

5. $x^2(x^2+4) - 4(x^2+4) =$

6. $x^2(x^2+4) - 4(x^2+4) =$

"Shift the negatives".

7. $2(-x+4) = -2(x-4)$ (example)

8. $3(-y+7) =$

9. $-3y(-y+7) =$

10. $(-x-5)7 =$

11. $(u^2-7)(-34y) =$

12. $3x(-y+7) =$

Factor by Grouping.

13. $cd + 6c + 4d + 24 =$

14. $6y^2 + 7y + 24y + 28 =$

15. $x^2 - x + 4x - 4 =$

16. $9p^2 + 12p - 15p - 20 =$

17. $mn - 6m - 4n + 24 =$

18. $x^3 + x^2 + x + 1 =$

19. $5x^3 - 3x^2 + 5x - 3 =$

20. $3x^2 - x + 6xy - 2y =$

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Factor by choosing to either factor out GCF or use difference of squares.

21. $x^2 + 9x =$

22. $x^2 - 9 =$

23. $x^2 - 36 =$

24. $15x^4 - 20x^2 =$

25. $9x^2 - 1 =$

26. $9x^2 - 4y^2 =$

27. $4x^4y^3 - 8x^2y + 4xy =$

28. $9 - 25x^2 =$

29. $5x^4 - 15x^3 + 25x^2 =$

30. $64x^2 - 49y^2 =$

31. $12x^4y^3 - 18x^3y^2 - 6x^4y^6 =$

32. $12x^4y^3z - 18x^3y^2z^3 - 9x^4z^2 =$