

East Los Angeles College
Department of Mathematics
Math 115
Practice Test 4

Multiply or Divide the following.

1. $3x(x - 8)$

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

3. $(2x - 3)(x + 8)$

4. $(x + 7)(x - 7)$

5. $\frac{x^2 - 5x + 3}{x + 2}$

6. $\frac{x^3 - 1}{x - 1}$

Factor out the Greatest Common Factor

7. $12x^4 + 8x$

8. $6x^5 - 4x^3$

Factor by Grouping

9. $x^3 + 2x^2 + 5x + 10$

10. $4x^3 - 6x^2 + 10x - 15$

Factor

11. $x^2 + 3x - 4$

12. $x^2 - 7x - 18$

13. $x^2 + 5x - 14$

14. $x^2 - x - 12$

15. $2x^2 + 11x - 6$

16. $5x^2 - 3x - 2$

17. $6x^2 + x - 1$

18. $3x^2 - 17x + 10$

19. $x^2 - 4$

20. $9x^2 - 1$

21. $x^3 - 64$

22. $27x^3 + 1$

Solve for x

23. $x^2 - 2x - 24 = 0$

24. $2x^2 + 11x + 15 = 0$

25. $x^2 - 81 = 0$

26. $x(x - 11) = -30$

27. $(x + 6)(x + 4) = 15$

28. What is your name?

Answer Sheet

1		10		19	
2		11		20	
3		12		21	
4		13		22	
5		14		23	
6		15		24	
7		16		25	
8		17		26	
9		18		27	