

1. $2x^2 + 5x + 3$	2. $m^2 - 10m + 24$	3. $x^2 - 3x - 10$
4. $x^2 - 2x - 24$	5. $3x^2 - 2x - 5$	6. $x^2 - 49$
7. $x^2 + 3x + 2$	8. $x^2 + 3x - 10$	9. $3x^2 - 23x + 14$
10. $7x^2 - 10x + 3$	11. $2x^2 - x - 6$	12. $15x^2 - 4x - 3$
13. $3x^2 + x - 10$	14. $x^2 + 2x - 8$	15. $x^2 - 36$
16. $2x^2 + 5x - 63$	17. $2x^2 - 5x + 3$	18. $3x^2 - 17x + 10$

Factor:

19. $4x^2 + 9x + 5$

20. $3x^2 + x - 14$

21. $4x^2 + 4x + 1$

Simplify:

22. $(x + 3) - (x - 6)$

23. $(2x + 3)(x - 5)$

24. $(x + 6)^2$

25. $(x - 3)(4x^2 - 2x + 8)$

26. $4x(2x - 3)(x + 1)$

27. $(5m - 3n)^2$

28. $(2x - 1)(x^2 + 4x - 10)$

29. $-2(x - 3)^2$

30. $(2x^2 - 3x + 1) - (4x^2 + 7)$

31. Evaluate the following expressions given the functions below (show work):

$$h(x) = 2x^2 - 3x + 1$$

$$g(x) = -x^2$$

$$j(x) = (x + 1)(x - 2)$$

a. $h(-2) =$

b. $g(3) =$

c. $j(0) =$

d. $h(0) =$

e. $g(-4) =$

f. $j(2) =$