

Kutchum Secondary School	Exercise 1.4 Factorise by Perfect Square	Name	
Additional Mathematics M.2		Class	No.
Unit 1 Factorisation of polynomial		By...Mr.Praiwan Duangta	

Factorise each of the following expressions by Perfect Square.

1. $x^2 + 12x + 36$

2. $x^2 - 10x + 25$

3. $x^2 + 30x + 225$

4. $x^2 - 36x + 324$

5. $x^2 - 28x + 196$

6. $x^2 + 40x + 400$

7. $x^2 - 36x + 324$

8. $x^2 - 60x + 900$

9. $25x^2 + 20x + 4$

10. $36x^2 - 60x + 25$

11. $81x^2 - 180x + 100$

12. $100x^2 + 220x + 121$

13. $64y^2 - 176y - 121$

14. $225n^2 - 360n + 144$

15. $4x^2 + 4xy + y^2$

16. $m^2 + 44mn + 484n^2$

17. $100x^2 + 60xz + 9z^2$

18. $81t^2 + 90tk + 25k^2$

19. $x^2 - 16xy + 64y^2$

20. $9x^2 - 6xy + y^2$

21. $25m^2 - 40mn + 16n^2$

22. $36x^2 - 84xy + 49y^2$

23. $36(x+6)^2 + 108(x+6) + 81$

24. $(4x-5)^2 - 26(4x-5) + 169$

25. $16x^2 + 8x(x+1) + (x+1)^2$

26. $(x-3)^2 - 12x(x-3) + 36x^2$

27. $4x^2 - 4(x^2 - 3x) + (x-3)^2$

28. $9(x-1)^2 - 30(x-1) + 25$

29. $49x^2 + 14(x^2 - x) + (x-1)^2$

30. $(x+2)^2 - 18(x^2 + 2x) + 81x^2$