Factorisation
Common Factor / Difference of two squares

Fully factorise each of the following

1. $6x - xy$

2. $3p + 6pq$

3. $x^2 - 6x$

4. $2n - 4n^2$

5. $x^2 - 16$

6. $2y - 10xy$

7. $4p^2 + 8p$

8. $25 - x^2$

9. $4w - 10w^2$

10. $u^2 - 36u$

11. $x^2 - y^2$

12. $4p^2 - 9q^2$

13. $10mn - 4m^2$

14. $6x^2 - 6w^2$

15. $100 - p^2$

16. $25p^2 + 5q^2$

17. $2x^2 - 18$

18. $4p - 14p^2$

19. $4m^2 - 49n^2$

20. $2x - 6xy$

21. $36 - 9n^2$

22. $3t - 12u^2$

23. $4x^2 + 8x$

24. $5s - 20s^2$

25. $8u^2 - 32v^2$

26. $25y^2 - 4x^2$

27. $3d^2 + 12d$

28. $4m^2 - 4n^2$

29. $x^4 - 16$

30. $10a + 15a^2$

31. $10mn + 6n$

32. $p^4 - q^4$

33. $2h^2 - 18g^2$

34. $49 - p^2$

35. $3v^2 + 6v$

36. $1 - a^4$

37. $5g^2 - 20g^3$

38. $4d^2 - 25e^2$

39. $3x^2 + 12x^3$

40. $16x^4 - y^4$

41. $2p^2 + 6pq$

42. $16x^2 - 25y^2$