Expanding a double bracket

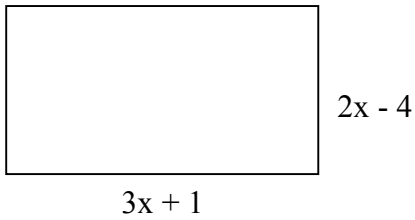
A Expand each of the brackets below and collect terms.

1. $(x + 3)(x + 7)$
2. $(p – 1)(p + 6)$
3. $(u – 5)(u – 6)$
4. $(2m – 2)(m + 6)$
5. $(3w – 2)^2$
6. $(5t – 3)(2t – 4)$
7. $(4x + 3)^2$
8. $(2r – 4)(2r + 4)$
9. $(5a + 6)(a – 4)$
10. $(a + c)(a – c)$
11. $(u – 2v)(u + 3v)$
12. $(5n – 3)(2n + 1)$
13. $(2p – 3q)^2$
14. $(5x + 3y)(3x – y)$
15. $(2c – 7d)^2$
16. $(1 + 3r)(2 – r)$
17. $(4 – 2u)(3 + u)$
18. $(5 – 2d)(5 + 2d)$
19. $(x + 2)(x^2 + 3x – 1)$
20. $(p – 3)(p^2 – 3p + 2)$
21. $(u – 4)(u^2 – 3u – 1)$
22. $(3a – 4)(a^2 – 3a – 5)$
23. $(2n – 3)(4n^2 – n + 5)$
24. $(2p – 4)(p^2 + 2p + 4)$
25. $(x^2 – 5x – 2)(2x – 3)$
26. $(4u^2 – 3u + 1)(u – 5)$
27. $(3m^2 – 2m + 2)(2m – 5)$
28. $(x^2 + 3)(x – 2)$
29. $(4x – 1)(3x^2 – x)$
30. $(x^3 – x^2)(x – 1)$
31. $(x – 2)(3x – 4) + 10x$
32. $(3x – 5y)^2 – 25y^2$
33. $6p – (2p – 3)(p – 2)$
34. $(2m – 5)^2 – 3(m – 1)$
35. $(4x – 2)(2x + 3) + (x – 1)^2$
36. $(4m – n)^2 – n(n + 3)$
37. $4(x – 2) + 3(x – 1)^2$
38. $(2a + c)^2 - (a – c)^2$
39. $(u + 3w)^2 – u(u – w)$
40. $(x – 1)(x^2 – 3x – 4) – x(x^2 – 4x)$

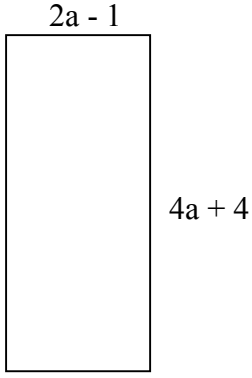
B Calculate the area of each rectangle below

1.

2.



3.



4.