Expanding double brackets

Exercise 1

1. $(x + 4)(x + 3)$

2. $(x + 5)(x + 1)$

3. $(x + 7)(x + 2)$

4. $(x + 5)(x - 3)$

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

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

7. $(x + 7)(x + 9)$

8. $(x + 5)(x - 10)$

9. $(x + 3)^2$

10. $(x - 11)(x + 2)$

11. $(x - 3)(x - 4)$

12. $(x - 4)(x + 2.5)$

Exercise 2

1. $(x + 2)(2x + 7)$

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

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

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

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

6. $(x - y)^2$

7. $(3x - 4y)(x + 5y)$

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

9. $(3x + y)(x + 6y)$

10. $(2x - 3y)(x - 2y)$

11. $(2x - 5y)(3x - 2y)$

12. $(2x - 3)^2$

13. $(x + 5y)(x - 5y)$

14. $(x^2 + y^2)^2$

Expanding double brackets – Answers

Exercise 1

1. $x^2 + 7x + 12$

2. $x^2 + 6x + 5$

3. $x^2 + 9x + 14$

4. $x^2 + 2x - 15$

5. $x^2 - 16$

6. $x^2 - 8x + 12$

7. $x^2 + 16x + 63$

8. $x^2 - 5 - 50$

9. $x^2 + 6x + 9$

10. $x^2 - 9x - 22$

11. $x^2 - 7 + 12$

12. $x^2 - 1.5x - 10$

Exercise 2

1. $2x^2 + 11x + 14$

2. $6x^2 - x - 12$

3. $2x^2 - 9x + 4$

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

5. $-x^2 + 2x + 15$

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

7. $3x^2 + 11xy - 20y^2$

8. $2x^2 + xy - 3y^2$

9. $3x^2 + 19xy + 6y^2$

10. $2x^2 - 7xy + 6y^2$

11. $6x^2 - 19xy + 10y^2$

12. $4x^2 - 12x + 9$

13. $x^2 - 25y^2$

14. $x^4 + 2x^2y^2 + y^4$