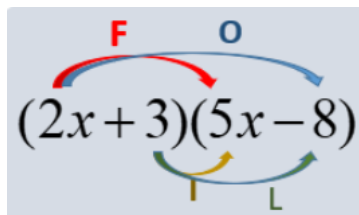


Expanding brackets – Foil Method



First: $(2x) \times (5x) = 10x^2$

Outer: $(2x) \times (-8x) = -16x$

Inner: $(3) \times (5x) = 15x$

Last: $(3) \times (-8) = -24$

$(2x + 3)(5x - 8) = 10x^2 - 16x + 15x - 24$

Exercise

1. $3(x + 4) =$

2. $x(x + 4) =$

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

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

5. $(x + 5)(x + 5) =$

6. $(x + 5)(x - 5) =$

7. $(x + 7)(x - 5) =$

8. $(x - 7)(x - 5) =$

9. $(2x - 7)(x - 6) =$

10. $(2x - 7)(2x - 6) =$

11. $(3x - 6)(2x + 6) =$

12. $(3x - 6)(2x + 8) =$

13. $(x + y)(x + y) =$

14. $(x + y)(x - y) =$

15. $(x + 2y)(x - y) =$

16. $(x + \sqrt{2})(x + \sqrt{2}) =$

17. $(x + \sqrt{2})(x - \sqrt{2}) =$

18. $(x + \sqrt{2})(x + 2\sqrt{2}) =$

19. $(x + \frac{1}{2})(x + \frac{1}{2}) =$

20. $(x + \frac{1}{2})(x - \frac{1}{2}) =$