

$$(a + b)(c + d) = ac + ad + bc + bd$$

Exercise 1 :

$(a + b)(c + d)$	=	ac	+	ad	+	bc	+	bd
$(x + y)(z + t)$	=		+		+		+	
$(3 + 2)(a + b)$	=		+		+		+	
$(x + 3)(t + v)$	=		+		+		+	
$(a + c)(b + d)$	=		+		+		+	
$(c + d)(5 + 3)$	=		+		+		+	
$(x^2 + x)(y^2 + y)$	=		+		+		+	
$(a + x)(b + y)$	=		+		+		+	
$(c + a)(d + b)$	=		+		+		+	

Exercise 2 :

$$\begin{aligned}(x + t)(y + z) &= xy + xz + ty + tz \\(a + x)(b + y) &= \\(3 + x)(2 + y) &= \\(x + 6)(y + 4) &= \\(a + 2)(b + 7) &= \\(b + a)(d + c) &= \\(c + d)(a + b) &= \\(1 + x)(y + 1) &= \\(x + 2)(x + 3) &= \\(2x + 1)(x + 5) &= \end{aligned}$$

Exercise 3 :

$$\begin{aligned}(x + 3)(x - 2) &= x^2 - 2x + 3x - 6 \\(x - 4)(x + 1) &= \\(x^2 + 1)(x + 2) &= \\(5 - x)(-3 - x) &= \\(2a + 4)(3a - 5) &= \\(x^2 - 3)(-2x + 4) &= \\(3x - 7)(4x^2 - 1) &= \\(1 + x)(-x + 1) &= \\(3x^2 - 5)(x + 2) &= \\(-3 + x)(6 - 2x^2) &= \end{aligned}$$

Exercise 4 :

$$\begin{aligned}A &= (x + 3)(x - 2) \\A &= x^2 - 2x + 3x - 6 \\A &= x^2 + x - 6\end{aligned}$$

$$B = (x - 4)(x + 6)$$

$$B =$$

$$B =$$

$$C = (a - 5)(2a - 7)$$

$$C =$$

$$D = (4 - x^2)(x + 3)$$

$$D =$$

$$D =$$

$$E = (3x - 2)(5x + 1)$$

$$E =$$

$$E =$$

$$F = (4 - 2x)(-1 - 3x)$$

$$F =$$

$$F =$$

$$G = (x + 3)(x + 3)$$

$$G =$$

$$G =$$

$$H = (2 - x)(2 - x)$$

$$H =$$

$$H =$$

$$I = (a + b)(a - b)$$

$$I =$$

$$I =$$

$$J = (x + 6)^2$$

$$J =$$

$$J =$$

Exercise 5 :

$$A = (4x - 1)(6 - 3x)$$

$$B = (x - 2)(x + 7) + x^2$$

$$C = 2x^2 + (x - 4)(3 - x)$$

$$D = x(x - 1) - 3(x + 1)$$

$$E = (x + 2)(-x - 3) + 3x^2$$