

คำชี้แจงให้นักเรียนศึกษาการคูณพหุนามกับพหุนามในแต่ละข้อพร้อมทั้งหาคำตอบในแต่ละข้อให้ถูกต้อง

$$1. (2x - 1)(x + 5) = \underline{(2x)(x)} + \underline{(2x)(5)} + \underline{(-1)(x)} + \underline{(-1)(5)}$$

$$= 2x^2 + 10x - x - 5$$

$$1. \text{Ans} = 2x^2 - 9x - 5$$

$$2. \text{Ans} = 2x^2 + 9x - 5$$

$$3. \text{Ans} = 2x^2 + 9x + 5$$

$$2. (3x + 1)(2x + 3) = \underline{(3x)(2x)} + \underline{(3x)(3)} + \underline{(1)(2x)} + \underline{(1)(3)}$$

$$= 6x^2 + 9x + 2x + 3$$

$$1. \text{Ans} = 6x^2 + 11x + 3$$

$$2. \text{Ans} = 6x^2 + 10x + 3$$

$$3. \text{Ans} = 6x^2 + 11x + 2$$

$$3. (3x + 1)(2x - 3) = \underline{(3x)(2x)} + \underline{(3x)(-3)} + \underline{(1)(2x)} + \underline{(1)(-3)}$$

$$= 6x^2 - 9x + 2x - 3$$

$$1. \text{Ans} = 6x^2 + 11x - 3$$

$$2. \text{Ans} = 6x^2 - 11x - 3$$

$$3. \text{Ans} = 6x^2 - 7x - 3$$

$$4. (2 - 3x)(1 + 5x) = \underline{(2)(1)} + \underline{(2)(5x)} + \underline{(-3x)(1)} + \underline{(-3x)(5x)}$$

$$= 2 + 10x - 3x - 15x^2$$

$$1. \text{Ans} = -15x^2 - 7x + 2$$

$$2. \text{Ans} = -15x^2 + 7x + 2$$

$$3. \text{Ans} = -15x^2 - 13x + 2$$

$$5. (4y-7)(3-2y) = (4y)(3) + (4y)(-2y) + (-7)(3) + (-7)(-2y)$$

$$12y - 8y^2 - 21 + 14y$$

$$1. Ans = -8y^2 + 24y - 21$$

$$2. Ans = -8y^2 - 2y - 21$$

$$3. Ans = -8y^2 + 26y - 21$$

$$6. (x+2)(7x^2+4) = (x)(7x^2) + (x)(4) + (2)(7x^2) + (2)(4)$$

$$= 7x^3 + 4x + 14x^2 + 8$$

$$1. Ans = 7x^3 + 14x^2 + 4x + 8$$

$$2. Ans = 7x^3 + 14x^2 + 4 + 8$$

$$3. Ans = 7x^3 + 14x^2 + 4x - 8$$

$$7. (x-1)(x^2-1) = (x)(x^2) + (x)(-1) + (-1)(x^2) + (-1)(-1)$$

$$= x^3 - x - x^2 + 1$$

$$1. Ans = x^3 - x - x^2 + 1$$

$$2. Ans = x^3 - x - x^2 + 1$$

$$3. Ans = x^3 - x^2 - x - 1$$

$$8. (x-1)(x-1)^2 = (x-1)(x^2-2x+1)$$

$$= (x)(x^2) + (x)(-2x) + (x)(1) + (-1)(x^2) + (-1)(-2x) + (-1)(1)$$

$$= x^3 - 2x^2 + x - x^2 + 2x - 1$$

$$1. Ans = x^3 - 3x^2 + 3x - 1$$

$$2. Ans = x^3 + 3x^2 - 3x + 1$$

$$3. Ans = x^3 - 3x^2 - 3x - 1$$

ชื่อ-สกุล

ชั้น

เลขที่