

P. 289

Special Products

$$34. (4x - 3y)^2$$

$$= (4x - 3y)(4x - 3y)$$

$$= 16x^2 - 12xy - 12xy + 9y^2$$
$$= 16x^2 - 24xy + 9y^2$$

Method of Decomposition

$$\begin{aligned} & \text{da} \quad 2x^2 + 11x + 12 \\ &= \left(\frac{2x^2}{x} + \frac{3x}{x} \right) + \left(\frac{8x}{4} + \frac{12}{4} \right) + \left(\frac{x(24)}{3} + \frac{(11)}{8} \right) \\ &= x(2x+3) + 4(2x+3) \\ &= (2x+3)(x+4) \\ &= 2x^2 + 8x + 3x + 12 = 2x^2 + 11x + 12 \end{aligned}$$

c)

$$2x^2 + 5x + 2$$

$$\begin{array}{r} \times 4 \\ + 5 \end{array}$$

$$= \left(\frac{2x^2}{x} + \frac{1x}{x} \right) + \left(\frac{4x}{2} + \frac{2}{2} \right)$$

$$\begin{array}{r} 1, 4 \end{array}$$

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

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

e $3s^2 + 4s + 1$

$\pi(3)$
 $\pi(4)$

$$= \left(\frac{3s^2 + 3s}{3s} + \frac{s+1}{1} \right) \frac{1}{3}$$

$$= 3s \left(\frac{s+1}{s+1} \right) + 1 \left(\frac{s+1}{s+1} \right)$$

$$= (s+1)(3s+1)$$

$$41a \quad 2m^2 - 11m + 12 \quad \begin{matrix} \times 24 \\ + -11 \end{matrix}$$

$$= \left(\underbrace{2m^2}_m - \underbrace{3m}_m \right) + \left(\underbrace{-8m}_{-4} + \underbrace{12}_{-4} \right) - 3, -8$$

$$= \underbrace{m}_{(2m-3)} \underbrace{(2m-3)}_{(m-4)} \underbrace{(2m-3)}_{(m-4)}$$

$$\text{5a) } 8m^2 - 14m + 3 \quad \begin{matrix} \times 24 \\ + 14 \end{matrix}$$

$$= \left(\frac{8m^2}{2m} - \frac{2m}{2m} \right) \left(\frac{-12m+3}{-3-3} \right)$$

$$-2, -12$$

$$= 2m(4m-1) - 3(4m-1)$$

$$= (4m-1)(2m-3)$$

homework : any classwork
questions you didn't
finish

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3 bad f
4 bad f
5 bad f } back of
assignment
sheet