

## E x B

- 16)  $6x^2 - 19x + 3$   $P = +18$   
 $= 6x^2 - 18x - x + 3$   $S = -19$  }  $-18, -1$   
 $= 6x(x-3) - 1(x-3)$   
 $= \underline{(x-3)(6x-1)}$
- 17)  $8x^2 - 10x - 3$   $P = -24$   
 $= 8x^2 - 12x + 2x - 3$   $S = -10$  }  $-12, +2$   
 $= 4x(2x-3) + 1(2x-3)$   
 $= \underline{(2x-3)(4x+1)}$
- 18)  $12x^2 + 23x + 10$   $P = +120$   
 $= 12x^2 + 15x + 8x + 10$   $S = +23$  }  $+15, +8$   
 $= 3x(4x+5) + 2(4x+5)$   
 $= \underline{(4x+5)(3x+2)}$
- 19)  $4y^2 - 23y + 15$   $P = +60$   
 $= 4y^2 - 20y - 3y + 15$   $S = -23$  }  $-20, -3$   
 $= 4y(y-5) - 3(y-5)$   
 $= \underline{(y-5)(4y-3)}$
- 20)  $6x^2 - 27x + 30$   $P = +180$   
 $= 6x^2 - 15x - 12x + 30$   $S = -27$  }  $-15, -12$   
 $= 3x(2x-5) - 6(2x-5)$   
 $= (2x-5)(3x-6)$   
 $= (2x-5) \cdot 3(x-2)$   
 $= 3(2x-5)(x-2)$  //

## Exc

$$1) \quad y^2 - a^2 = (y-a)(y+a)$$

$$2) \quad m^2 - n^2 = (m-n)(m+n)$$

$$3) \quad x^2 - t^2 = (x-t)(x+t)$$

$$4) \quad y^2 - 1 = y^2 - 1^2 \\ = (y-1)(y+1)$$

$$5) \quad x^2 - 9 = x^2 - 3^2 \\ = (x-3)(x+3)$$

$$6) \quad a^2 - 25 = (a-5)(a+5)$$

$$7) \quad x^2 - \frac{1}{4} = x^2 - \left(\frac{1}{2}\right)^2 \\ = \left(x - \frac{1}{2}\right)\left(x + \frac{1}{2}\right)$$

$$8) \quad x^2 - \frac{1}{9} = x^2 - \left(\frac{1}{3}\right)^2 \\ = \left(x - \frac{1}{3}\right)\left(x + \frac{1}{3}\right)$$

$$9) \quad 4x^2 - y^2 = (2x)^2 - y^2 \\ = (2x-y)(2x+y)$$

$$10) \quad a^2 - 4b^2 = a^2 - (2b)^2 \\ = (a-2b)(a+2b)$$

$$11) \quad 25x^2 - 4y^2 = (5x)^2 - (2y)^2 = (5x-2y)(5x+2y)$$