

$$\textcircled{c} \quad 35a^9b^9 - 40a^5b^5 + 40ab + 20a^5b$$

$$\text{gcf} = 5ab$$

$$= 5ab(7a^8b^8 - 8a^4b^4 + 8 + 4a^4)$$

$$\textcircled{d} \quad -18x^8y + 15xy^9$$

$$\text{gcf} = -3xy$$

$$= -3xy(6x^7 - 5y^8)$$

$$\textcircled{e} \quad 6(\cancel{x+7}) + a(\cancel{x+7})$$

$$\text{gcf} = (x+7)$$

$$= (x+7)(6+a)$$

$$\textcircled{f} \quad 4x(\cancel{5x^6+3}) - 3(\cancel{5x^6+3})$$

$$\text{gcf} = (5x^6+3)$$

$$= (5x^6+3)(4x-3)$$