

①

a) $x^4 \cdot x^6 \cdot x = x^{11}$

b) $2x^2 \cdot 3x^3 \cdot 2x = 12x^6$

c) $\frac{x^4 \cdot x^3 \cdot x^2}{x^9} = \frac{x^9}{x^9}$

d) $(3x^2)^3 = 9x^6$

e) $\sqrt{x} \cdot \sqrt{x} = \sqrt{x^2}$

②

a) $15x - 2 = 12x + 9$

$$15x - 12x = 9 + 2$$

$$3x = 11$$

$$\underline{\underline{x = \frac{11}{3}}}$$

b)

$$3(7x - 1) = 6(x + 3)$$

$$21x - 3 = 6x + 18$$

$$21x - 6x = 18 + 3$$

$$15x = 21$$

$$\underline{\underline{x = \frac{21}{15}}}$$

③