

④ $14x^2 + 3x = 11$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$2a$$

$$b^2 - 4ac$$

$$14x^2 + 3x - 11 = 0$$

$$a \quad b \quad c$$

$$a = 14$$

$$b = 3$$

$$c = -11$$

$$\frac{-3 \pm \sqrt{3^2 - 4(14)(-11)}}{2 \cdot 14} = 0$$

$$\frac{-3 \pm \sqrt{9 + 616}}{28}$$

$$\frac{-3 \pm \sqrt{625}}{28}$$

$$\frac{-3 \pm 25}{28} = x$$

$$x_2 = \frac{-3 - 25}{28}$$

$$\frac{-3 + 25}{28} = \frac{22}{28} = x$$

$$x_2 = \frac{-28}{28}$$

$$\frac{11}{14} = x$$

$$x = -1$$

⑤ $5x + 3y = 39 \quad \text{---} \times 2$
 $8x - 2y = 42 \quad \text{---} \times 3$

$$\begin{array}{r} 10x + 6y = 78 \\ + 24x - 6y = 126 \\ \hline \end{array}$$

$$\frac{34x}{34} = \frac{204}{34}$$

$$x = 6$$

⑥ $5(2x^2 - y^2) - x^2(x^2 - y) - x^2y - x^4$

$$10x^2 - 5y^2 - x^4 + x^3y - x^2y - x^4$$

$$10x^2 - 5y^2 - 2x^4$$

$$2x^2(5 - x^2) - 5y^2$$

$$5(2x^2 - y^2) - 2x^4$$