

$$\begin{aligned}
 c^8 - c^4 - 2c^2 - 1 &= (c^4)^2 - (c^2)^2 - 2c^2 - 1^2 = \\
 &= (c^4)^2 - ((c^2)^2 + 2c^2 \cdot 1 + 1^2) = (c^4)^2 - (c^2 + 1)^2 = \\
 &= (c^4 + c^2 + 1^2)(c^4 - (c^2 + 1^2)) = (c^4 + c^2 + 1^2)(c^4 - c^2 - 1^2) = \\
 &= (c^4 + c^2 + 1)(c^4 - c^2 - 1)
 \end{aligned}$$

$$ax^2 + bx + c = 0$$

$$1) x^2 + 2xy + y^2 = (x + y)^2$$

$$2) x^2 - y^2 = (x + y)(x - y)$$

$$ax^2 + bx + c = 0$$

$$D = b^2 - 4ac$$

$$x_1 = \frac{-b + \sqrt{D}}{2a}$$

$$x_2 = \frac{-b - \sqrt{D}}{2a}$$

$$x_1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

$$x_2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

$$7x^2 + 5x - 12 = 0$$

$$D = 5^2 - 4 \cdot 7 \cdot (-12) =$$

$$= 25 + 28 \cdot 12 = 361 \quad \sqrt{361} = 19$$

$$x_1 = \frac{-5 + 19}{2 \cdot 7} = \frac{14}{14} = 1$$

$$x_2 = \frac{-5 - 19}{2 \cdot 7} = \frac{-24}{14} = -\frac{12}{7}$$

$$x_1 = 1$$

$$x_2 = -\frac{12}{7}$$

$$x^2 - 2xy + y^2 = (x - y)^2$$

$$x^2 + 2xy + y^2 = (x + y)^2$$

$$x^2 - y^2 = (x + y)(x - y)$$

$$21x - 42 = 0$$

$$21x = 42$$

$$x = 2$$