



## CHUYÊN ĐỀ T09: PHƯƠNG TRÌNH VÔ TỈ

Giải các phương trình sau:

$$\text{T0901. } \sqrt{2x^2 + 5x - 3} = x + 1$$

$$\text{T0902. } \sqrt{3x + 2} + \sqrt{x + 3} = 2x - 1$$

$$\text{T0903. } \frac{1}{2}x^2 + \sqrt{x^2 - 1} = 2(2 - x^2)^2$$

$$\text{T0904. } 2x^2 - 4x = 3\sqrt{x^3 + 1}$$

$$\text{T0905. } -2x^2 - x + 3 = 3\sqrt{-2x^2 - x + 1}$$

$$\text{T0906. } \frac{2x + 5}{\sqrt{x - 1} + \sqrt{3x + 4}} = \sqrt{2 - x}$$

$$\text{T0907. } 2x^2 + 5x - 1 = 7\sqrt{x^3 - 1}$$

$$\text{T0908. } 2x^2 + x - 19 = 3\sqrt{2x^2 + x - 15}$$

$$\text{T0909. } \sqrt{5x - 1} + \sqrt{3 - x} = 2(3x - 2)$$

$$\text{T0910. } x + \sqrt{2x - 1} = 2(3 - x)^2$$

$$\text{T0911. } (x^2 - x)\sqrt{2x + 1} = x^3 - 2x - 1$$

$$\text{T0912. } \sqrt[3]{2x^2 - x} + \sqrt[3]{x - 2} + \sqrt[3]{x^2 - 1} = 0$$

$$\text{T0913. } \frac{x^4 - 4x^2 + 16}{x^2(4 - x^2)} = \frac{\sqrt{4 - x^2}}{x} + \frac{x}{\sqrt{4 - x^2}} + 1$$

$$\text{T0914. } x + \frac{x}{\sqrt{x^2 - 1}} = \frac{35}{12}$$

$$\text{T0915. } 4(x + 1)^2 = (2x + 10)(1 - \sqrt{2x + 3})^2$$

$$\text{T0916. } \sqrt{x^2 + 16} + \sqrt{17} = \sqrt{x + 17} + \sqrt{x^2 - x + 16}$$

$$\text{T0917. } \sqrt{x + 1} + \sqrt{x^2 + 6x + 7} = x + 3$$

$$\text{T0918. } \sqrt{x^3 + x^2 + 1} + \sqrt{x^2 + 2} = x^2 + x + 1$$

$$\text{T0919. } 2x + \sqrt{4x^2 - 5x + 2} = \sqrt{8x - 1} + \sqrt{3x + 1}$$

$$\text{T0920. } x^3 + 3x^2 + x + 2 = 2x^2\sqrt{x + 4} + \sqrt{2x + 11}$$