

Να λυθούν οι εξισώσεις:

$$1) \eta\mu^2 x - \sigma\nu\nu^2 x = 0$$

$$2) (2-4\eta\mu x)(1+\eta\mu x) = 0 \text{ στο διάστημα } [3\pi, 4\pi]$$

$$3) \eta\mu^3 x + \sigma\nu\nu^3 x = \sigma\nu\nu x$$

$$4) \sigma\nu\nu\left(2x - \frac{\pi}{3}\right) = \eta\mu\left(x + \frac{\pi}{3}\right) \mid$$

$$5) \eta\mu^2 x + 5\sigma\nu\nu^2 x = 4$$

$$6) \eta\mu x = 2\epsilon\phi x$$

$$7) \mid \eta\mu x \mid = \mid \sigma\nu\nu x \mid$$

$$8) 2\eta\mu\epsilon\phi x = 3$$

$$9) \epsilon\phi x \epsilon\phi \frac{1}{x} = 1$$

$$10) 3\sigma\phi x \sigma\nu\nu x + \sqrt{3}\sigma\nu\nu x = 3\sigma\phi x \eta\mu x + \sqrt{3}\eta\mu x$$

$$11) \text{ . Να λυθεί η εξίσωση: } 4\eta\mu 2\chi + 3\sigma\nu\nu 2\chi = 3 \text{ με } \pi < 2\chi \leq 2\pi.$$