

$$1) 25 * x^4 - 109 * x^2 + 36 = 0$$

$$2) x^4 + 5 * x^2 + 6 = 0$$

$$1) x^2 = y \Rightarrow$$

$$\Rightarrow 25y^2 - 109y + 36 = 0$$

$$D = b^2 - 4ac = 109^2 - 4 * 25 * 36 = (109 - (2 * 5 * 6))(109 + (2 * 5 * 6)) =$$

$$= (109 - 60)(109 + 60) = 49 * 169 = 7^2 * 13^2$$

$$y_1 = (109 + 7 * 13) / 50 = 200 / 50 = 4$$

$$y_2 = (109 - 7 * 13) / 50 = 18 / 50 = 9 / 25$$

$$x^2 = 4$$

$$x_1 = 2$$

$$x_2 = -2$$

$$x^2 = 9 / 25$$

$$x_3 = \frac{3}{5}$$

$$x_4 = -(\frac{3}{5})$$

$$41^2 = (40 + 1)^2 = 40^2 + 40 * 2 + 1 = 1600 + 80 + 1 = 1681$$

$$2) x^2 = y$$

$$y^2 + 5y + 6 = 0$$

$$y_1 + y_2 = -b/a = -5$$

$$y_1 * y_2 = c/a = 6$$

$$y_1 = -3$$

$$y_2 = -2$$

$$x^2 = -3$$

$$x^2 = -2$$

нет решения



P-7

физики 5 тонн

100 кг

1 тонн