24.10.2023 (вторник)

1)
$$\frac{(3\sqrt{6})^2}{18}$$

3)
$$\frac{14}{(2\sqrt{7})^2}$$
 - 0,5

5)
$$\frac{\sqrt{200}}{4\sqrt{2}} = \frac{16}{4} = 2,5$$

7)
$$\frac{\sqrt{200}}{\sqrt{8}} = 5$$

9)
$$\sqrt{45\cdot27}\cdot\sqrt{60} = \sqrt{3\cdot15\cdot9\cdot\cancel{3}\cdot\cancel{3}\cdot\cancel{4}} = 3\cdot15\cdot\cancel{3}\cdot\cancel{2} = 270$$

11)
$$\sqrt{8} \cdot \sqrt{2} + 3 = -1422 + 3 = 473 + 3 = 7$$

15)
$$\sqrt{72} + \sqrt{8} - 8\sqrt{2} + 2 = 4\sqrt{8} - 8\sqrt{2} + 2 = 8\sqrt{2} - 8\sqrt{2} + 2 = 2$$

17)
$$(\sqrt{10}-6)(\sqrt{10}+6)-70-36=-26$$

19)
$$\sqrt{54} - \sqrt{24} - \sqrt{6} + 12 = 3 - \sqrt{6} - 2 - \sqrt{6} - \sqrt{6} + 12 = 12$$

19)
$$\sqrt{54} - \sqrt{24} - \sqrt{6} + 12 = 3\sqrt{6} - 2\sqrt{6} - \sqrt{6} + 72 = 12$$

21) $(\sqrt{62} + 3)^2 - 6\sqrt{62} = 62 + 6\sqrt{62} + 9 - 6\sqrt{62} = 71$

23)
$$\frac{\left(6^{5}\right)^{-6}}{6^{-32}} = \frac{6^{-30}}{6^{-32}} = 6^{-30-\left(-32\right)} = 6^{-32}$$

25)
$$3^{-11} \cdot (3^5)^3 = 3^7 = 3^7$$

27)
$$\frac{4^{-2} \cdot 4^{-6}}{4^{-10}} = \frac{1}{\sqrt{-70}} = 16$$

$$29) \frac{4^{15}}{8^9} = \frac{2^{15}}{2^{15}} = \frac{2$$

31)
$$\frac{3^{17} \cdot 6^{16}}{18^{15}} = \frac{2^{16} \cdot 3^{35}}{2^{15} \cdot 3^{15}} = 2 \cdot 3^{5} = 57$$

33)
$$\sqrt{3\cdot7^2}\cdot\sqrt{3\cdot2^4} = 7\sqrt{3}\cdot\sqrt{3\cdot2^4} = 7\sqrt{3}\cdot\sqrt{3\cdot2^4} = 7\sqrt{3\cdot2^4}$$

35)
$$\sqrt{2^4 \cdot 3^2 \cdot 5^4} = \frac{4}{3} \cdot \frac{3}{2} \cdot \frac{5}{5} = \frac{3}{5} \cdot \frac{1}{5}$$

37)
$$8\sqrt{6} \cdot \sqrt{2} \cdot 2\sqrt{3} - 8\sqrt{3} \cdot \sqrt{2} \cdot \sqrt{2} = 96$$

37)
$$8\sqrt{6} \cdot \sqrt{2} \cdot 2\sqrt{3} = 0$$
 $\sqrt{6} \cdot 2 \cdot 3 = 8 \cdot 2\sqrt{36} = 8 \cdot 2 \cdot 6 = 96$
39) $(\sqrt{20} - \sqrt{5}) \cdot \sqrt{5} = 16 - 5 = 5$

41)
$$(5+\sqrt{2})^2+(5-\sqrt{2})^2=25+7\sqrt{2}+2+25-7\sqrt{2}+2=54$$

43)
$$\sqrt{(3\sqrt{2}-5)^2} + 3\sqrt{2} = 3\sqrt{2} - 5\sqrt{2} = -5\sqrt{2}$$

45)
$$\frac{(2^2 \cdot 2^4)^7}{(2 \cdot 2^6)^6} = \frac{2^{15} \cdot 2^{18}}{2^{15} \cdot 2^{15}} = 1 = 1 = \frac{(2^6)^7}{(2^7)^6} = 1$$

47)
$$\frac{1}{5^{-8}} \cdot \frac{1}{5^6} = \frac{1}{5^{-2}} = \frac{1}{2.5} = 0.04$$

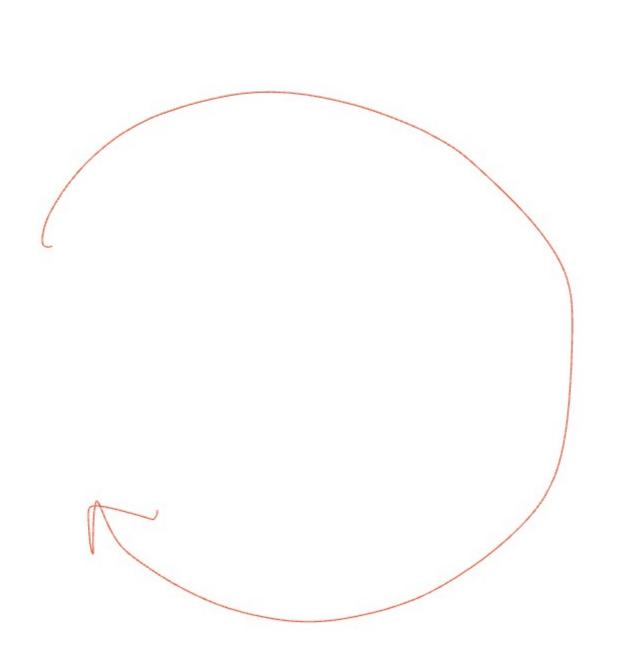
49)
$$\frac{5^5}{25} \cdot = 5^3 = 125$$

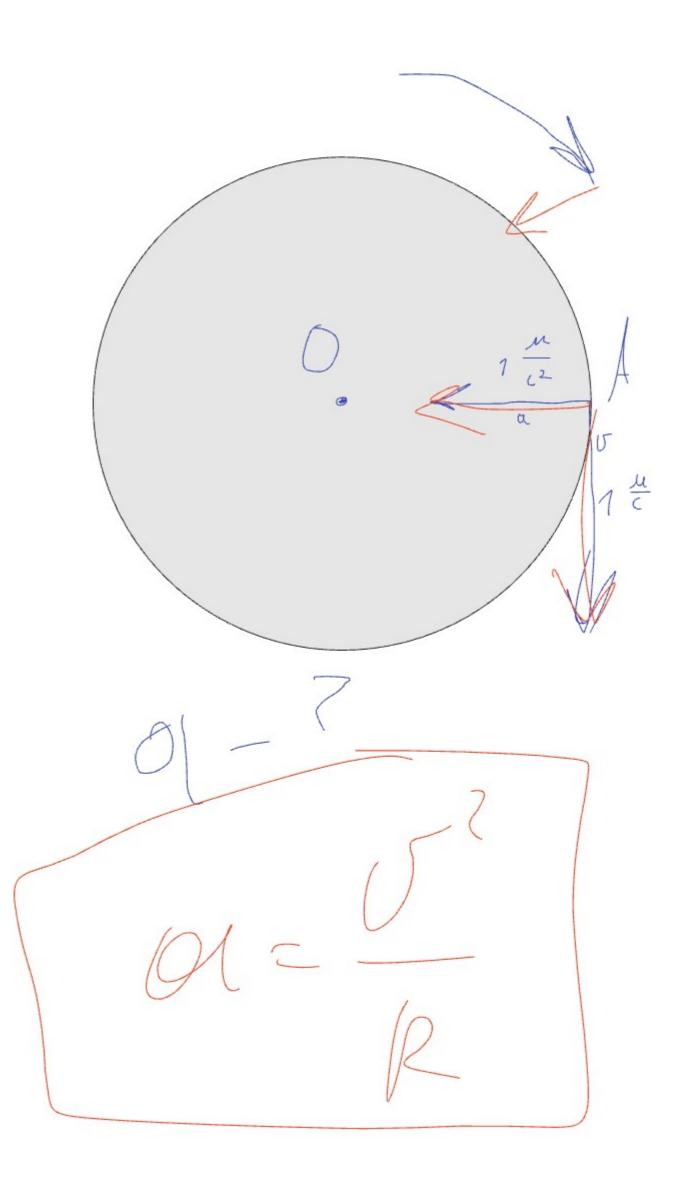
51)
$$\sqrt{(-17)^2} = -17$$

53)
$$\frac{1}{3+\sqrt{7}} \cdot \frac{1}{3-\sqrt{7}} = \frac{1}{9-7} = \frac{1}{9-7}$$

55)
$$\frac{3+\sqrt{7}}{3+2\sqrt{2}} + \frac{3+2\sqrt{2}}{3-2\sqrt{2}} = \frac{3-2\sqrt{2}+3+2\sqrt{2}}{(3+2\sqrt{2})(3-2\sqrt{2})} = \frac{6}{9-8} = 6$$

Gent Capelle Tenberol Jenopelle





$$R = 2 m$$

$$t = 6,28c. (neprog)$$

$$d = 1$$

$$Q = \frac{U^2}{R} = \left(\frac{2nR}{T}\right)^2 \cdot \frac{R}{T} = \frac{4m^2R^3}{T^2R}$$

$$= \frac{4m^2R}{T^2}$$

$$U = 2n$$

$$W = 2n$$

$$W = 2n$$

$$= \frac{1}{T}$$

$$W = 2n$$

$$= \frac{1}{T}$$