

$$1. \ C(n,r) = n!/(r!(n-r)!)$$

$$2. \ \vec{x} \cdot \vec{y} = \langle \vec{x}, \vec{y} \rangle, \text{ právě když } \vec{x} \not\perp \vec{y}$$

$$3. \ (\forall x \in \mathbb{R})(\exists y \in \mathbb{R})\, y > x$$

$$4. \ \frac{a+b}{c}, \frac{a}{b+c}, \frac{1}{a+b+c} \neq \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$$

$$5. \ \nabla^2 f(x,y) = \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial y^2}$$

$$6. \ \lim_{x \rightarrow 0} (1+x^2)^{\frac{1}{x}} = e$$

$$7. \ \int_0^1 3x^2 \, dx = 1, \int \frac{x+\sqrt{x}}{\sqrt[4]{x^2(1+\operatorname{tg} x)}} \, dx$$

$$8. \ \sqrt{2}, \sqrt{\frac{x+y}{x-y}}, \sqrt[3]{10}, e^{\sqrt{x}}$$

$$9. \ \|x\| = \sqrt{x \cdot x}$$

$$10. \ \underline{x} \quad \overline{y} \quad \overline{x+y}$$

$$11. \ \lim_{\alpha \rightarrow 0} \frac{\operatorname{tg} \alpha}{\alpha} = 1$$

$$12. \ a \equiv c \pmod{\theta}$$

$$13. \ \left\{x \left| \int_0^x t^2 \, dt \leq 5 \right. \right\}$$

$$14. \ F(x)|_a^b = F(b) - F(a)$$

$$15. \ \underbrace{\overbrace{a+\cdots+a}^{(m-n)/2} + \underbrace{b+\cdots+b}_n + \overbrace{a+\cdots+a}^{(m-n)/2}}_m$$