

Egészrész / törtész

$$1. [x] + [y] \leq [x + y] \leq [x] + [y] + 1$$

$$2. \frac{[x]}{n} = \frac{[x]}{n} \quad n \in \mathbb{N}^+$$

$$3. [9x] = 9; \quad [x + 3] = 3 + [x]$$

$$4. \frac{[x]}{2} - \frac{1}{2} + \frac{[x]}{2} + \frac{1}{2} = [2x]$$

$$5. [x] + \frac{[x]}{2} + \frac{1}{2} = [2x]$$

$$6. 2[x] = [2x]; \quad [x] + x = [2x]$$

$$7. [2x] = [x] - 1; \quad [2x] = x - 1$$

$$8. 2^{[x]} = 2x + 1; \quad [2^x] = 2x + 1$$

$$9. 3^{[x]} = 3x + 1; \quad [3^x] = 3x + 1$$

$$10. [x] + [2x] + [3x] = [6x]$$

$$11. \frac{[x] + [2x] + [3x]}{6} = x$$

$$12. x - 1 = \frac{[x]}{2} + \frac{[x]}{3} + \frac{[x]}{6}$$

$$13. 8^{\frac{[4x+1]}{5}} = 2^{7x-1}$$

$$14. 8^{\frac{[4x+1]}{3}} = 2^{2x-1}$$

$$15. \frac{[6x+5]}{8} = \frac{15x-7}{5}$$

$$16. [x-1] = \frac{[x+2]}{2}$$

$$17. [x^3] + [x^2] + [x] = [x] - 1; \quad [x^2] = [x]^2$$

$$18. [x] = 1 + [x^2 - 1]$$

$$19. x^3 - [x] = 3$$

$$20. 2^x - 2 = [[x] - x]$$

$$21. \frac{[x]}{2} - \frac{1}{2} + \frac{[x]}{2} + \frac{1}{2} = [3x]$$

$$22. 2[x] = 5[x+2] \quad 2\{x\} = 5[x+2]$$

$$23. [2x] = 2[x] - 1; \quad [2x] = 3x - 1$$

$$24. x^2 - [x] = 6\{x\} \quad [x^2] - x = 6\{x\}$$

$$25. 3^{[x]} = 3x + 1; \quad [3^x] = 3x + 1$$

$$26. x - 1 = \frac{[x]}{2} + \frac{[x]}{3} + \frac{[x]}{4}$$

$$27. \frac{[5x+3]}{6} = \frac{6x-1}{5}$$

$$28. [x-2] = \frac{[x+2]}{3}$$

$$29. [x^4] - 2[x^2] = [x] - 1$$

$$30. \frac{[x]}{\{x\}} = 2008$$