

$$23) 3^x - 4x + (y - \sqrt{|x|});$$

$$25) x - 10^{\sin x} + \cos(x - y);$$

$$27) \cos^2\left(\sin \frac{1}{z}\right).$$

29)

$$F(x) = \begin{cases} 4x^2 + 2x - 19, & \text{если } x \geq -3,5, \\ -\frac{2x}{-4x+1} & \text{если } x < -3,5. \end{cases}$$

$$31) F(x) = \begin{cases} -3x + 9, & \text{если } x > 3, \\ \frac{x^3}{x^2 + 8}, & \text{если } x \leq 3. \end{cases}$$

33)

$$F(x) = \begin{cases} 45x^2 + 5, & \text{если } x > 3,6, \\ \frac{5x}{10x^2 + 1}, & \text{если } x \leq 3,6. \end{cases}$$

35)

$$F(x) = \begin{cases} 1,2x^2 - 3x - 9, & \text{если } x > 3, \\ \frac{12,1}{2x^2 + 1}, & \text{если } x \leq 3. \end{cases}$$

$$24) x - 10 \sin x + |x^4 - x^5|;$$

$$26) \frac{1 + \sin^2(x + y)}{2 + \left| x - \frac{2x}{1 + x^2 y^2} \right|} + x.$$

$$28) \frac{\cos^2 x}{\sin x} - xyz + \frac{ax^2 + bx + c}{dx^3 - f}.$$

$$30) F(x) = \begin{cases} -x^2 + 3x + 9, & \text{если } x \leq 3, \\ \frac{x}{x^2 + 1}, & \text{если } x > 3. \end{cases}$$

$$32) F(x) = \begin{cases} -x^3 + 9, & \text{если } x \leq 13, \\ -\frac{3}{x+1} & \text{если } x > 13. \end{cases}$$

$$34) F(x) = \begin{cases} x^4 + 9, & \text{если } x < 3,2, \\ \frac{54x^4}{-5x^2 + 7}, & \text{если } x \geq 3,2. \end{cases}$$

$$36) F(x) = \begin{cases} x^2 + 3x + 9, & \text{если } x \leq 3, \\ \frac{\sin x}{x^2 - 9}, & \text{если } x > 3. \end{cases}$$

$$1) \frac{b + \sqrt{b^2 + 4ac}}{2a} - a^3c + b^{-2};$$

$$3) \frac{\sin x + \cos y}{\cos x - \sin y} \cdot \operatorname{tg} xy;$$

$$5) \frac{3 + e^{y-1}}{1 + x^2 |y - \operatorname{tg} x|};$$

$$7) \ln \left| \left(y - \sqrt{|x|} \right) \left(x - \frac{y}{x + \frac{x^2}{4}} \right) \right|;$$

$$9) \frac{\ln |\cos x|}{\ln(1 + x^2)};$$

$$11) \left(1 + \frac{1}{x^2} \right)^x - 12x^2y;$$

$$13) \frac{\cos x}{\pi - 2x} + 16x \cdot \cos(xy) - 2;$$

$$15) 2\operatorname{ctg}(3x) - \frac{1}{12x^2 + 7x - 5};$$

$$17) x \cdot \ln x + \frac{y}{\cos x - \frac{x}{3}};$$

$$19) e^x - \frac{y^2 + 12xy - 3x^2}{18y - 1};$$

$$21) 2\operatorname{ctg}(3x) - \frac{\ln \cos x}{\ln(1 + x^2)};$$

$$2) \frac{a}{c} \cdot \frac{b}{d} - \frac{ab - c}{cd};$$

$$4) \frac{x + y}{y + 1} - \frac{xy - 12}{34 + x};$$

$$6) x - \frac{x^3}{3} + \frac{x^5}{5};$$

$$8) (1 - \operatorname{tg} x)^{\operatorname{ctg} x} + \cos(x - y);$$

$$10) \left(\frac{x + 1}{x - 1} \right)^x + 18xy^2;$$

$$12) \frac{x^2 - 7x + 10}{x^2 - 8x + 12};$$

$$14) 2^{-x} - \cos x + \sin(2xy);$$

$$16) |x^2 - x^3| - \frac{7x}{x^3 - 15x};$$

$$18) \sin \sqrt{x + 1} - \sin \sqrt{x - 1};$$

$$20) \frac{1 + \sin \sqrt{x + 1}}{\cos(12y - 4)};$$

$$22) e^x - x - 2 + (1 + x)^x;$$