Journ Journels Jon: OMI0600041 Vontpoino 1

(2a)
$$R(x) = (arctg x)^{\sqrt{1+x^2}}$$

 $R'(x) = (arctg x)^{\sqrt{1+x^2}} \left(\frac{x. arctg x. lnarctg x + 1}{arctg x. \sqrt{1+x^2}} \right)$

8)
$$g(x) = \frac{e^{x}}{x^{2-4x+3}}$$
 $g^{(11)}(x) = ?$
 $(e^{x})^{(11)} = e^{x} - 1$ Sanoru e^{x}
 $2x^{2-4x+3}$ $g(x) = e^{x}(x^{2-4x+3})^{-1}$

1audnuy: $g(x) = e^{x}(x^{2}-4x+3)^{7}$ $= 2(6)(e^{x})^{11}(x^{2}-4x+3)^{1} + (6)(x^{2}-4x+3)^{1} + (6)(x^{2}-4x+4)^{1} + (6)(x^{2$

$$= e^{x} (x^{2} + 0)^{1} + 10 \cdot e^{x} (2x - u)^{1} + 11 \cdot 10 \cdot e^{x} \cdot \overline{z}^{1} =$$

$$= e^{x} + 0 + 100 \cdot e^{x} = 0$$

$$= 53 \cdot e^{x}$$

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$$\frac{3c_{1} \cdot OUI 0600041}{30000041}$$

$$\frac{3c_{1} \cdot OUI 0600041}{5i_{1}x^{2}x+2s_{1}n_{1}x+4} - 2\sqrt{3} \operatorname{arctg} \frac{5i_{1}n_{1}x+1}{13}$$

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$$\frac{3c_{1} \cdot OUI 0600041}{5i_{1}x^{2}x+2s_{1}n_{1}x+4} - \frac{2\sqrt{3} \operatorname{arctg} \frac{5i_{1}n_{1}x+1}{13}}{5i_{1}x^{2}x+2s_{1}n_{1}x+4} - \frac{2c_{2}s_{1}x+1}{5i_{1}x+2} - \frac{2c_{2}s_{1}x+1}{3} - \frac{2c_$$