424 
$$y = \ln^2 \sqrt{x^2 + 4} = \left( \ln \sqrt{x^2 + 4} \right)^2$$

$$y' = 2 \ln \sqrt{x^2 + 4} \cdot (\ln \sqrt{x^2 + 4})' =$$

$$= 2 \ln \sqrt{x^{2}+4} \cdot \frac{1}{\sqrt{x^{2}+4}} \cdot (\sqrt{x^{2}+4})' =$$

$$= 2 \ln \sqrt{x^{2}+4} \qquad 1 \qquad 2 \times = \sqrt{x^{2}+4}$$

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$$\sqrt{x^2+4}$$
  
=  $x^2+4$ 

425 
$$y = \frac{x \ln x - x + 1}{1 - x \ln x}$$

$$y' = \frac{2\ln x - x + 1}{(1 - x \ln x)^2}$$

$$\frac{1}{y} = \frac{(x \ln x - x + 1)^{1} (1 - x \ln x) - (x \ln x - x + 1) (1 - x \ln x)^{1}}{(1 - x \ln x)^{2}}$$

$$\frac{(\ln x + 1 - 1)(1 - x \ln x) - (x \ln x - x + 1)(-\ln x - 1)}{(1 - x \ln x)^{2}}$$

$$= \frac{\ln x - x \ln^2 x + x \ln^2 x + x \ln x - x \ln x - x + \ln x + 1}{(1 - x \ln x)^2}$$

$$= \frac{2 \ln x - x + 1}{(1 - x \ln x)^2}$$

$$=\frac{2\ln x - x + 1}{(1 - x \ln x)^2}$$

$$y = \arctan \sqrt{x^{2} - 1}$$

$$y' = \frac{1}{x\sqrt{x^{2} - 1}}$$

$$y' = -\frac{\cos x}{\cos x |(1 + \sin x)|}$$

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$$y = (2^{x})^{x^{2}}$$

$$y = 2^{x} \times x^{2} = 2^{x} \times x^{3}$$

$$y = 2^{x^{3}} \times x^{2} = 2^{x^{3}} \times x^{2} = 2^{x^{3}} \times x^{3}$$

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$$y = x^{\cos x} \times x^{2} = 2^{x^{3}} \times x^{2$$