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Calculus Worksheet: Differentiation of Functions (1)

Use differentiation rules to find dy/dx for each function given below

1. $y = [e^{2x^2+1}]^3$

2. $y = \sqrt[5]{\frac{x^2+1}{1-x^3}}$

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3. $y = \arcsin\left(\frac{x^2}{x^2 + 1}\right)$

4. $y = x^{\sin x}, x > 0$

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5. $y = \frac{\ln(x+1)}{\ln(x-3)}$

6. $y = \ln(\ln(x))$

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7. $y = \arctan\left(\frac{x+2}{x-3}\right)$

8. $y = \sin(\cos(x+2))$