

In problems 5-10, calculate the derivative of y with respect to x .

4. $f(x) = x^3 \sqrt{1+2x^5} + 5x + 4.$

5. $y = \frac{\log(2x)}{9^{8x}}$

6. $y = \sin(\cos(x)) + \arctan(x)$

7. $\ln(y^2 - 5xy) + 3xy = (7x + y)$

8. $y = \arcsin(5x) - \cos(x^2)$

9. $y = (5x^2 + 3)^{\sin(x)}$