

Question 5

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Differentiate the following

1. $y = 3x^4 + 4x - 5$

2. $y = \frac{x^4 - 10x^5}{5x^2}$

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

4. $y = \frac{x+1}{4x-1}$