



Calculus

Differentiation questions

There is one rule and one rule only:

You need separate terms to differentiate!

Determine: $\frac{dy}{dx}$

1. $y = \frac{4}{\sqrt{x^4}} - \frac{3}{\sqrt[3]{x^2}} + 2x$

2. $y = \frac{x^2 - 3x + 4}{x^{-2} \cdot \sqrt{x}}$



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

4. $y = \frac{x^2 - x - 6}{x - 3}$