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Find $f'(x)$

| Past Paper Question | C1 OCR June 2013 Q3(ii)

Given $f(x) = \frac{6}{x^2} + 2x$, (i) find $f'(x)$, (ii) $f''(x)$

(i) So $f(x) = 6x^{-2} + 2x$

$$\therefore f'(x) = -12x^{-3} + 2$$

$$= -\frac{12}{x^3} + 2$$

$$= 2 - \frac{12}{x^3}$$

(ii) $f''(x) = 36x^{-4}$

$$= \frac{36}{x^4}$$

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