Integrate with respect to x :

$$\int (1 - 36x^2 - 5x + 2)dx$$

Solution

$$\int (1 - 36x^2 - 5x + 2)dx = \int (3 - 36x^2 - 5x)dx = \int 3dx - 36\int x^2dx - 5\int xdx$$

$$= 3x - 36\frac{x^3}{3} - 5\frac{x^2}{2} + C = 3x - 12x^3 - \frac{5}{2}x^2 + C$$

Answer: $3x - 12x^3 - \frac{5}{2}x^2 + C$

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