

## Answer on Question #47144 - Math - Differential Calculus | Equations

### Question:

Find  $f'(x)=x^{(3n)}$

$$3nx^{(3n)}$$

$$3nx^{(3n-1)}$$

$$3nx$$

$$3nx^{(3n-3)}$$

### Solution:

Apply the power rule:

$$(x^a)' = ax^{a-1}$$

Therefore

$$f'(x) = (x^{3n})' = 3nx^{3n-1}$$

**Answer:**  $3nx^{3n-1}$