



SMA Negeri 2 Brebes

Lembar Kerja Peserta Didik

Turunan Fungsi Aljabar
Matemtika Tingkat Lanjut
Fase F+ Kelas XII

Tahun Ajaran 2024/2025

Nama :

Kelas :



www.sman2-brebes.sch.id



LIVEWORKSHEETS



Tentukan turunan pertama dari fungsi berikut.

1

a $y = 4x^5$
 $y' = \square x^{\square}$

d $f(x) = \frac{2}{3x^6}$
 $f'(x) = \frac{\square}{x^{\square}}$

b $y = \frac{2}{9}x^3$
 $y' = \frac{2}{3}x^{\square}$

e $f(x) = \frac{1}{x^3}$

c $f(x) = 2x^4 - x^6$
 $f'(x) = \square x^{\square} - \square x^{\square}$

$f'(x) = \frac{\square}{x^{\square}}$

$$\textcircled{\textbf{f}} \quad y = 4\sqrt[8]{x^3}$$

$$y' = \frac{\boxed{}}{\boxed{}\sqrt{x}\boxed{}}$$

$$\textcircled{\textbf{h}} \quad f(x) = \frac{2}{\sqrt{x}}$$

$$f'(x) = \frac{\boxed{}}{x\boxed{}\sqrt{x}\boxed{}}$$

$$\textcircled{\textbf{g}} \quad f(x) = \frac{2}{3x^6} + 5x^2 - 1$$

$$f'(x) = -\frac{\boxed{}}{x\boxed{}} + \boxed{}x^{\boxed{}} - \boxed{}$$

i) $y = 2x^5 - 3x + 1$

$$y' = \square x^{\square} - \square + \square$$

j) $y = \frac{2}{3}x^9 + 2x^2 - 10$

$$y' = \square x^{\square} + \square x - \square$$

a $y = x^4 + 2x^2 - 9$

$$y' = \boxed{} x^{\boxed{}} + \boxed{}$$

b $f(x) = 3x^5 - 9x^3 + 2x + 8$

$$f'(x) = \boxed{} x^{\boxed{}} - \boxed{} x + \boxed{}$$