

Devoir en classe n°1

Chapitre n° 1 page 6-31 ;
T STI GM & MS
Année scolaire 2005/2006

EXERCICE N°1 :

$$f(x) = 5 ;$$

$$f(x) = 1 - 7x ;$$

$$f(x) = x^4 + 2x + 4 ;$$

$$f(x) = 2x^3 - x^2 + \frac{5}{x^2} - \frac{1}{5} ;$$

$$f(x) = (2 - x^3) (2x^2 - 1) ;$$

$$f(x) = \frac{x^2 - 4}{x + 2} ;$$

$$f(x) = \frac{x^2 + 4}{x + 2} ;$$

$$f(x) = \frac{-x^2 + x + 2}{x + 2} ;$$

$$f(x) = -3x ;$$

$$f(x) = \frac{1}{2}x - \sqrt{2} ;$$

$$f(x) = \frac{3}{2}x^3 - \frac{4}{x} + 7 ;$$

ETUDE LOCALE ET GLOBALE D'UNE FONCTION : CORRECTION DEVOIR N°1
Le Lundi 11 Septembre 2005

EXERCICE N°1 :

$$f(x) = 5 ;$$

$$f'(x) = 0 ;$$

$$f(x) = 1 - 7x ;$$

$$f'(x) = -7 ;$$

$$f(x) = x^4 + 2x + 4 ;$$

$$f'(x) = 4x^3 + 2 ;$$

$$f(x) = -3x ;$$

$$f'(x) = -3 ;$$

$$f(x) = \frac{1}{2}x - \sqrt{2} ;$$

$$f'(x) = \frac{1}{2} ;$$

$$f(x) = \frac{3}{2}x^3 - \frac{4}{x} + 7 ;$$

$$f'(x) = \frac{9}{2}x^2 + \frac{4}{x^2} ;$$

$$f(x) = 2x^3 - x^2 + \frac{5}{x^2} - \frac{1}{5} ; \quad f(x) = \frac{-x^2 + x + 2}{x + 2} ; \text{ pour tout } x \neq -2$$

$$f'(x) = 6x^2 - 2x - \frac{10}{x^3} ; \quad f(x) = \frac{-x(x + 4)}{(x + 2)^2}$$

$$f(x) = (2 - x^3) (2x^2 - 1) ;$$

$$f'(x) = x(-10x^3 + 3x + 8) ;$$

$$f(x) = \frac{x^2 - 4}{x + 2} \text{ pour tout } x \neq -2 ; f(x) = x - 2 ;$$

$$f'(x) = 1$$

$$f(x) = \frac{x^2 + 4}{x + 2} \text{ pour tout } x \neq -2 ;$$

$$f'(x) = \frac{x^2 + 4x - 4}{(x + 2)^2}$$

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EXERCICE N°2 :

$$f(x) = -4 ;$$

$$f(x) = 1 + 3x ;$$

$$f(x) = x^3 + x^2 + 1 ;$$

$$f(x) = x^4 + 2x + \frac{3}{x^2} - \frac{1}{7} ;$$

$$f(x) = (1 - x^4) (2x - 1) ;$$

$$f(x) = \frac{x^2 - 1}{x + 1} ;$$

$$f(x) = \frac{x^2 + 1}{x + 1} ;$$

$$f(x) = \frac{-x^2 + x + 1}{x + 1} ;$$

$$f(x) = -5x ;$$

$$f(x) = \frac{1}{3}x - \sqrt{5} ;$$

$$f(x) = \frac{1}{3}x^4 - \frac{3}{x} - 8 ;$$

ETUDE LOCALE ET GLOBALE D'UNE FONCTION : CORRECTION DEVOIR N°1
Le Lundi 11 Septembre 2005

EXERCICE N°2 :

$$f(x) = -4 ;$$

$$f'(x) = 0 ;$$

$$f(x) = 1 + 3x ;$$

$$f'(x) = 3 ;$$

$$f(x) = x^3 + x^2 + 1 ;$$

$$f'(x) = 3x^2 + 2x ;$$

$$f(x) = x^4 + 2x + \frac{3}{x^2} - \frac{1}{7} ;$$

$$f'(x) = 4x^3 + 2 - \frac{6}{x^3} ;$$

$$f(x) = (1 - x^4) (2x - 1) ;$$

$$f'(x) = -10x^4 - 4x^3 + 2 ;$$

$$f(x) = \frac{x^2 - 1}{x + 1} \text{ pour tout } x \neq -1 ; f(x) = x - 1 ;$$

$$f'(x) = 1$$

$$f(x) = \frac{x^2 + 1}{x + 1} \text{ pour tout } x \neq -1 ;$$

$$f'(x) = \frac{x^2 + 2x - 1}{(x + 1)^2}$$

$$f(x) = -5x ;$$

$$f'(x) = -5 ;$$

$$f(x) = \frac{1}{3}x - \sqrt{5} ;$$

$$f'(x) = \frac{1}{3} ;$$

$$f(x) = \frac{1}{3}x^4 - \frac{3}{x} - 8 ;$$

$$f'(x) = \frac{4}{3}x^3 + \frac{3}{x^2} ;$$

$$f(x) = \frac{-x^2 + x + 1}{x + 1} \text{ ; pour tout } x \neq -1$$

$$f'(x) = \frac{-x(x + 2)}{(x + 1)^2}$$

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Chapitre n° 1 page 6-31 ;
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ETUDE LOCALE ET GLOBALE D'UNE FONCTION :
Le Lundi 27 Septembre 2004

EXERCICE N°1 :

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$$f(x) = x^3 + x^2 + 1 ;$$

$$f(x) = x^4 + 2x + \frac{3}{x^2} - \frac{1}{7} ;$$

$$f(x) = x^3 + x^2 + 1 ;$$

$$f(x) = (1 - x^4)(2x - 1) ;$$

$$f(x) = \frac{x^2 - 1}{x + 1} ;$$

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Chapitre n° 1 page 6-31 ;
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ETUDE LOCALE ET GLOBALE D'UNE FONCTION :
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EXERCICE N°2 :

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$$f(x) = 2x^3 - x^2 + \frac{5}{x^2} - \frac{1}{5} ;$$

$$f(x) = (2 - x^3)(2x^2 - 1) ;$$

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