

EXERCICE N°1

Soit (E) l'équation différentielle : $y'' - 2y' + 2y = 0$

(1) Soit h la fonction définie sur $\mathbb{R}$ par : $h(x) = -2x - 1$

a) Vérifier que h est une solution particulière de l'équation différentielle (E) sur $\mathbb{R}$.

b) Démontrer qu'une fonction $f = g + h$ est solution de (E) sur $\mathbb{R}$ si et seulement si g est solution de (E) : $y'' - 2y' + 2y = 0$ sur $\mathbb{R}$.

(2) a) Déterminer les solutions g de l'équation différentielle (E) sur $\mathbb{R}$.

b) En déduire les solutions f de (E) sur $\mathbb{R}$.

c) Déterminer la solution de (E) sur $\mathbb{R}$ vérifiant $f(0) = 0$.

EXERCICE N°2

Soit l'équation différentielle : $y'' + 2y' = \ln(x)^{1/2}$ (E)

(1) Démontrer que la fonction y définie sur $\mathbb{R}$ par $y(x) = \ln(x)^{1/2}$ est une solution particulière de (E).

(2) Résoudre l'équation différentielle : $y'' + 2y' = 0$ (E')

(3) Démontrer qu'une fonction y définie sur $\mathbb{R}$ est solution de (E) si et seulement si $y - \ln(x)^{1/2}$ est solution de (E').

(4) En déduire toutes les solutions y de l'équation (E).

(5) Déterminer la fonction y solution de (E) qui prend la valeur -2 en 0 .

EXERCICE N°3

On considère l'équation différentielle (E) : $y'' + 2y' = \frac{2x}{1 + 2x^2}$

(1) Vérifier que la fonction f est une solution de (E) tel que pour tout x de $\mathbb{R}$: $f(x) = e^{-2x} \ln(1 + 2x^2)$

(2) Montrer qu'une fonction y est solution de (E) si et seulement si $y - f$ est solution de l'équation différentielle (E') : $y'' + 2y' = 0$

(3) Résoudre (E') et en déduire les solutions de (E).

EXERCICE N°4

On considère l'équation différentielle (E) : $y'' + 2y' = ax^2$

(1) Résoudre l'équation différentielle (E') : $y'' + 2y' = 0$, où y désigne une fonction dérivable sur $\mathbb{R}$.

(2) Soient a et b deux réels et soit h la fonction définie sur $\mathbb{R}$ par : $h(x) = ax + bx^2$

a) Déterminer a et b pour que h soit solution de l'équation (E).

b) Montrer que h est une solution de l'équation (E) si et seulement si $a + b$ est solution de (E).

c) En déduire l'ensemble des solutions de (E).

EXERCICE N°5

Résoudre l'équation différentielle : $y'' + y = e^{-x}$

EXERCICE N°6

On considère l'équation différentielle : $y'' - 2y' + y = e^{2x}$ (E)

(1) Démontrer que la fonction y définie sur $\mathbb{R}$ par $y(x) = x e^{2x}$ est une solution de (E).

(2) Résoudre l'équation différentielle : $y'' - 2y' + y = 0$ (E')

(3) Démontrer qu'une fonction y définie sur $\mathbb{R}$ est solution de (E) si et seulement si $y - x e^{2x}$ est solution de (E').

(4) En déduire toutes les solutions de l'équation (E).

(5) Déterminer la fonction y solution de (E) qui prend la valeur 1 en 0 .

EXERCICE N°7

On se propose de trouver une fonction f définie et dérivable sur l'intervalle $]0, +\infty[$, s'annulant pour $x = 1$ et vérifiant la propriété : pour tout $x > 0$, $x f'(x) = 2f(x) + 2 \ln x$ (E)

(1) Trouver toutes les fonctions f solutions f de l'équation (E) telles que, pour tout $x > 0$, $x f'(x) = 2f(x) + 2 \ln x = 0$

(2) Soit une fonction f définie et dérivable sur l'intervalle $]0, +\infty[$ telle que $f(1) = 0$, soit h la fonction définie sur l'intervalle $]0, +\infty[$ par la relation $h(x) = x^2 f(x)$



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