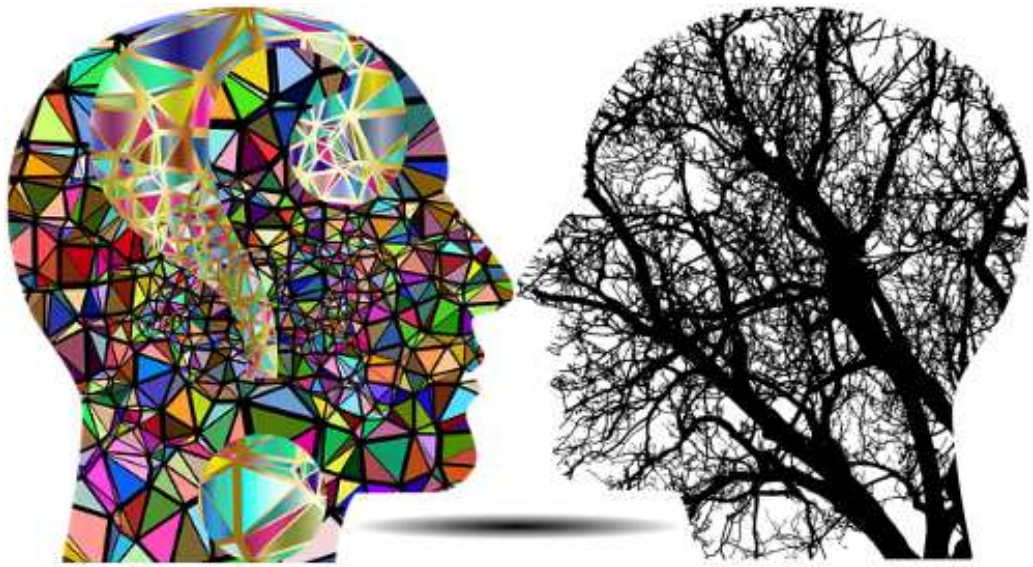
Activités mentales

Stéphane Mirbel

Vous disposez de ***45 secondes*** pour répondre aux questions



☞ Question 1

$$f(x) = x + 5$$
$$f'(x) = \ldots$$

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$$f(x) = x + 5$$
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☞ Question 2

$$f(x) = 4x^2 - 5x + 1$$
$$f'(x) = \ldots$$

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$$f(x) = 4x^2 - 5x + 1$$
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☞ Question 3

$$f(x) = -5x^3 + 3x - 2$$
$$f'(x) = \ldots$$

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$$f(x) = -5x^3 + 3x - 2$$
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☞ Question 4

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

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$$f'(x) = \ldots$$

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☞ Question 5

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

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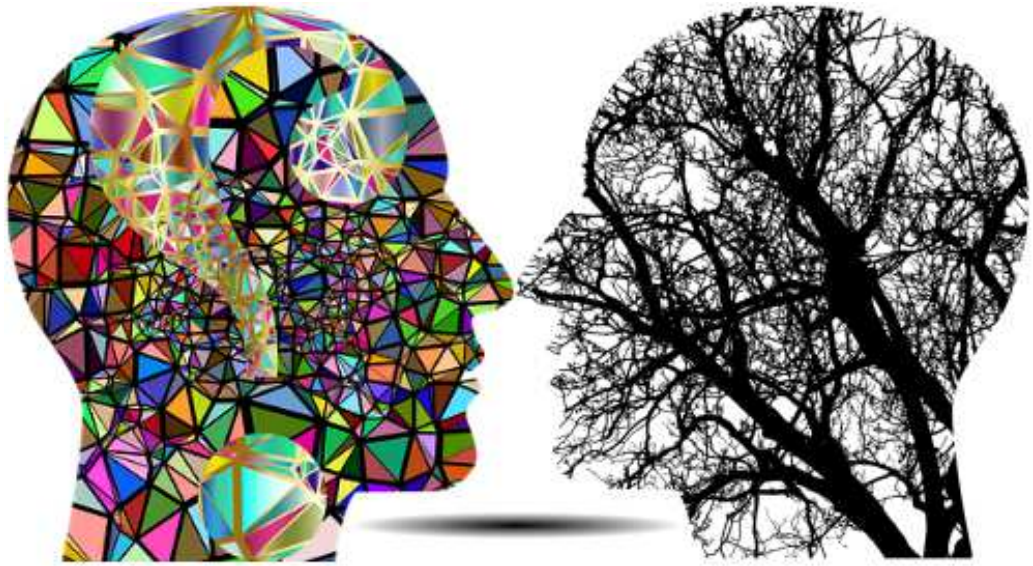
Correction



☞ Correction question 1

$$f(x) = x + 5$$
$$f'(x) = 1$$

☞ Correction question 2

$$f(x) = 4x^2 - 5x + 1$$
$$f'(x) = 4 \times 2x - 5 = 8x - 5$$

☞ Correction question 3

$$f(x) = -5x^3 + 3x - 2$$
$$f'(x) = -5 \times 3x^2 + 3 = -15x^2 + 3$$

☞ Correction question 4

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

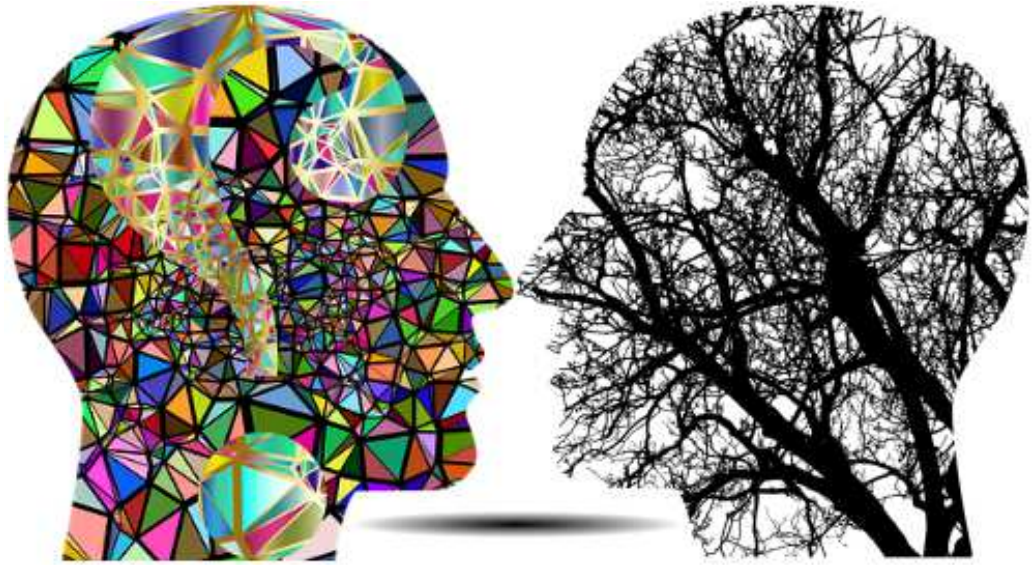
$$f'(x) = 2x - \frac{3}{x^2}$$

☞ Correction question 5

$$f'(x) = \frac{2x+1}{x}\frac{u(x)}{v(x)}$$

$$f' = \frac{u'v - uv'}{v^2}$$

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



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