

DÉRIVATION

- Dériver les fonctions suivantes

1) $f(x) = \text{Arcsin}(5x)$

2) $f(x) = \text{Arctg}(6x + 3)$

3) $f(x) = \text{Arccos}(x - 2)$

4) $f(x) = \frac{2}{\text{Arcsin}(3x)}$

5) $f(x) = \text{Arctg}\left(\frac{x}{2}\right)$

6) $f(x) = \text{Arcsin}(1 - 2x)$

7) $f(x) = \text{Arcsin}(x^2 - 3)$

8) $f(x) = \text{Arccos}\left(\frac{1}{x}\right)$

9) $f(x) = \text{Arcsin}^2(x)$

10) $f(x) = \text{Arctg} \sqrt{x}$

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$$1) \frac{5}{\sqrt{1-25x^2}}$$

$$2) \frac{3}{18x^2 + 18x + 5}$$

$$3) -\frac{1}{\sqrt{-x^2 + 4x - 3}}$$

$$4) -\frac{6}{\sqrt{1-9x^2} \operatorname{Arccsin}^2(3x)}$$

$$5) \frac{2}{x^2 + 4}$$

$$6) -\frac{1}{\sqrt{-(x-1)x}}$$

$$7) \frac{2x}{\sqrt{-x^4 + 6x^2 - 8}}$$

$$8) \frac{1}{x^2 \sqrt{\frac{x^2-1}{x^2}}}$$

$$9) \frac{2 \operatorname{Arccsin}(x)}{\sqrt{1-x^2}}$$

$$10) \frac{1}{2\sqrt{x}(x+1)}$$

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