

# Mathématiques

Terminale S

*Flashcards pour apprendre les formules*

MémoCartes

Maths

15.09.2016

<http://www.mementoslangues.fr>

Constantes

Suites

Trigonométrie

Dérivation


## Constante de Pythagore

$$\sqrt{2}$$

1,41 42 13 56 23 73 09 50...

## Constante de Théodore

$$\sqrt{3}$$

1,73 20 50 80 75 68 87 72...

**Racine carrée de 5**

$$\sqrt{5}$$

2,23 60 67 97 74 99 78 96...



## Constante d'Archimède

$\pi$

3,14 15 92 65 35 89 79 32...

## Nombre d'or



1,61 80 33 98 87 49 89 48...

## Constante d'Euler-Mascheroni

$\gamma$

0,57 72 15 66 49 01 53 28...

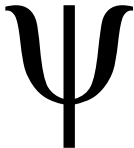
## Nombre d'Euler / Constante de Neper

$e$

2,71 82 81 82 84 59 04 52...



## Nombre plastique



1,32 47 17 95 72 44 74 60...

## Constante Oméga



0,56 71 43 29 04 09 78 38...

## Suite

$$n(n+1)/2$$

$$1 + 2 + 3 + \dots + n$$

## Suite

$$n(n+1)(2n+1)/2$$

$$1^2 + 2^2 + 3^2 + \dots + n^2$$



## Suite

$$\left(\frac{n(n+1)}{2}\right)^2$$

$$1^3 + 2^3 + 3^3 + \dots + n^3$$

## Factorielle

$n!$

$$n(n-1)\dots 3 \times 2 \times 1$$

## Trigonométrie

$$\cos(a+b)$$

$$\cos a \cos b - \sin a \sin b$$

## Trigonométrie

$\cos(a-b)$

$$\cos a \cos b + \sin a \sin b$$



## Trigonométrie

$$\sin(a+b)$$

$$\sin a \cos b + \sin b \cos a$$

## Trigonométrie

$$\sin(a-b)$$

$$\sin a \cos b - \sin b \cos a$$

## Trigonométrie

$\sin(2a)$

$$2 \sin a \cos a$$

## Trigonométrie

$\cos(2a)$

$$\cos^2 a - \sin^2 a$$



## Trigonométrie

$\tan(a+b)$

$$(\tan a + \tan b)/(1 - \tan a \tan b)$$

## Trigonométrie

$$\tan(a-b)$$

$$(\tan a - \tan b)/(1 + \tan a \tan b)$$

## Dérivation

$$(\cos x)'$$

$$-\sin x$$

## Dérivation

$$(\sin x)'$$

**COS** *x*



## Dérivation

$$(\tan x)'$$

$$1 + \tan^2 x$$

## Dérivation

$$(x^r)'$$

$$r x^{r-1}$$

## Dérivation

$$(u+v)'$$

$$u' + v'$$

## Dérivation

$$(r \ u)'$$

$r u'$



## Dérivation

$(uv)'$

$$u'v + uv'$$

## Dérivation

$$(1/v)'$$

$$-v'/v^2$$

## Dérivation

$(u/v)'$

$$(u'v - uv')/v^2$$

## Dérivation

$$(e^x)'$$

$$e^x$$



## Dérivation

$$(e^u)'$$

$$u'e^u$$

## Dérivation

$$(\ln x)'$$

$$1/x$$

## Dérivation

$$(\ln u)'$$

*u' / u*

## Dérivation

$$(x \ln x - x)'$$

$\ln x$



## Dérivation

$$(u^r)'$$

$$u' r u^{r-1}$$

## Dérivation

$$(f(u))'$$

$$u' f'(u)$$

## Dérivation

$$(\sqrt{x})'$$

$$1/(2\sqrt{x})$$

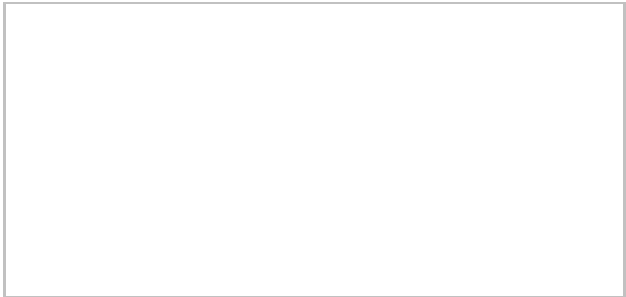
## Dérivation

$$\left(\frac{1}{\sqrt{x}}\right)'$$

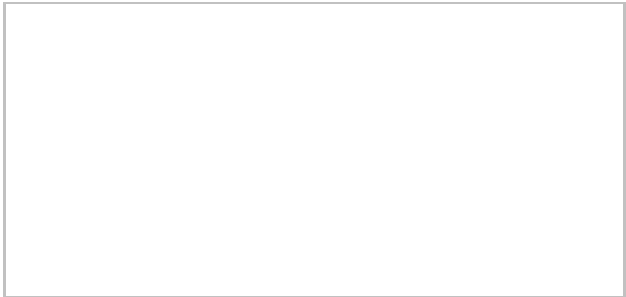
$$-1/(2x\sqrt{x})$$

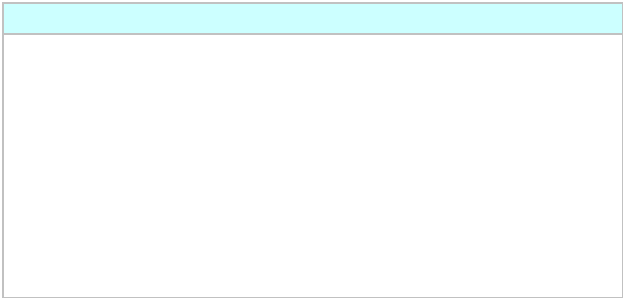


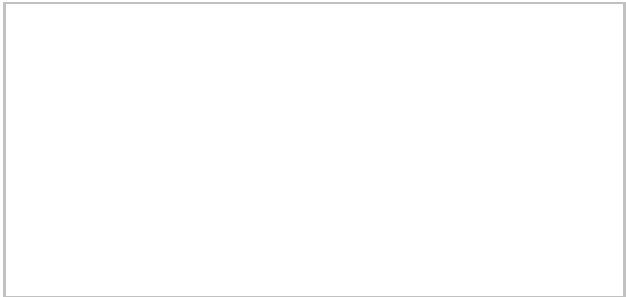


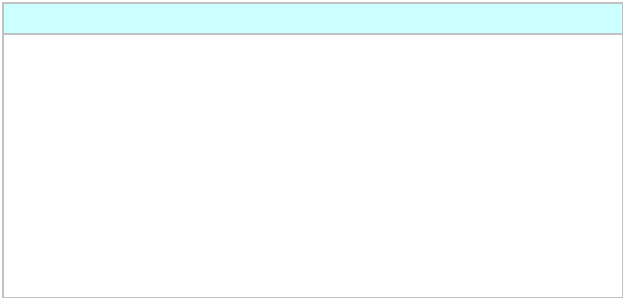


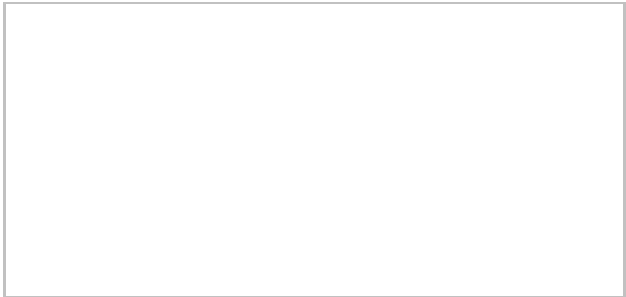




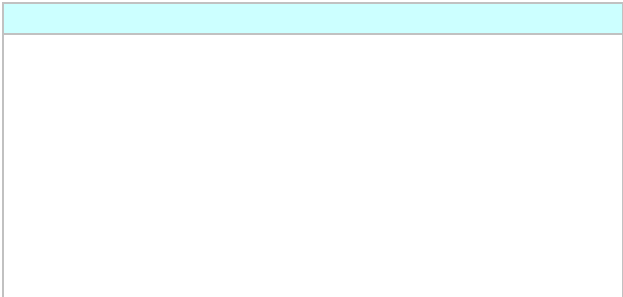


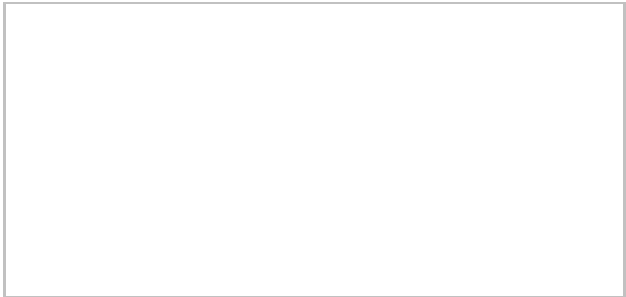




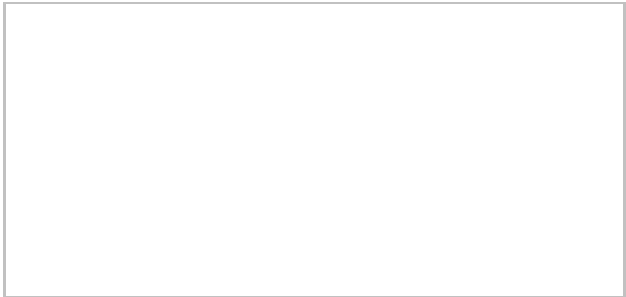


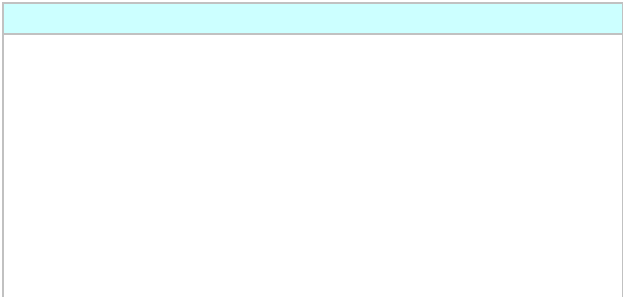


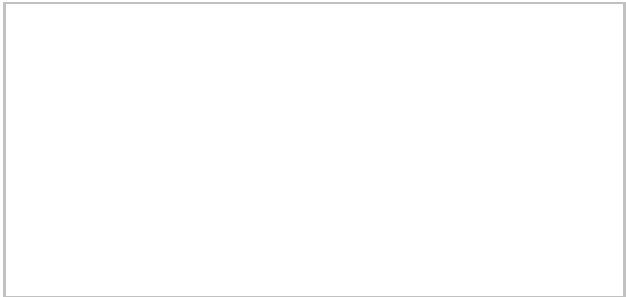


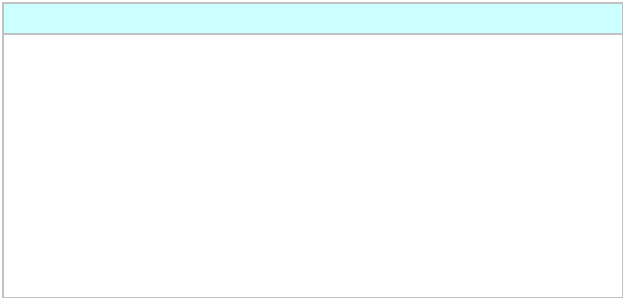


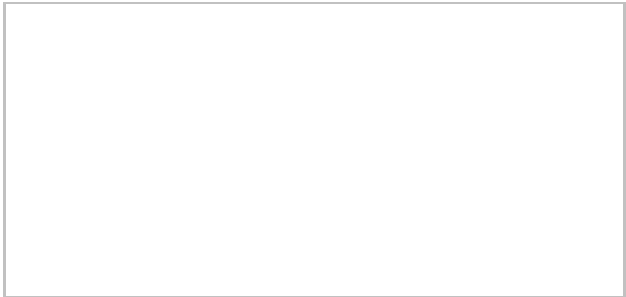






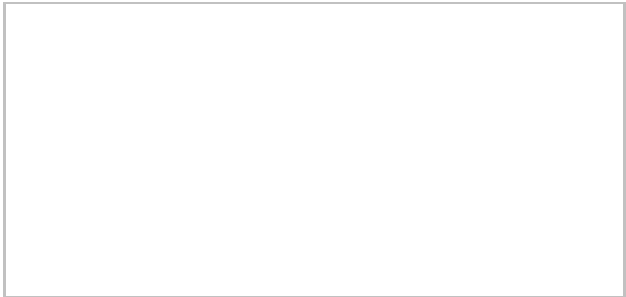




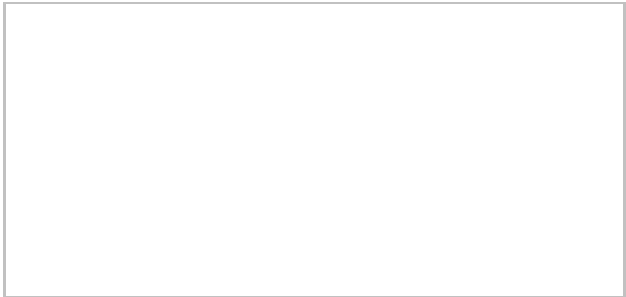


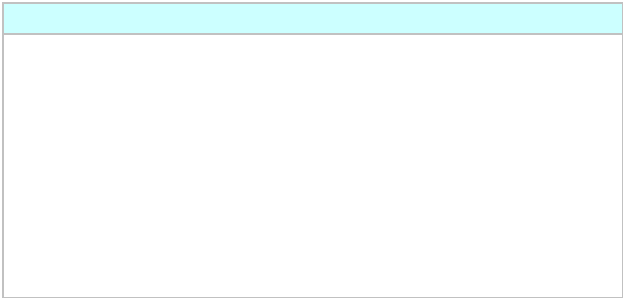


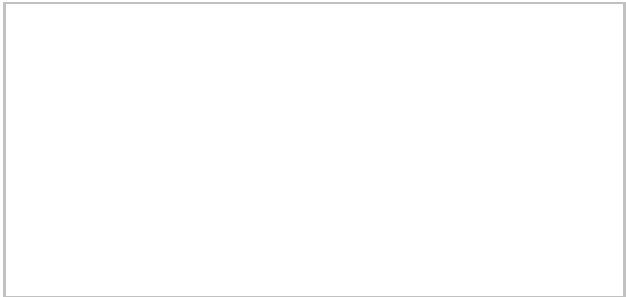


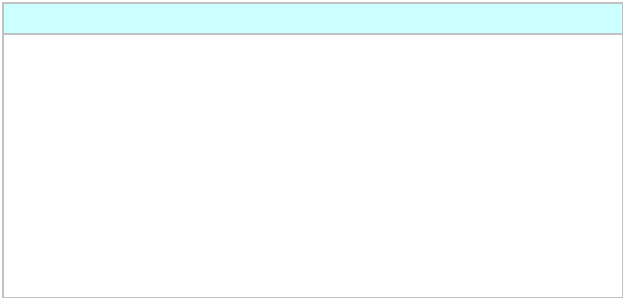


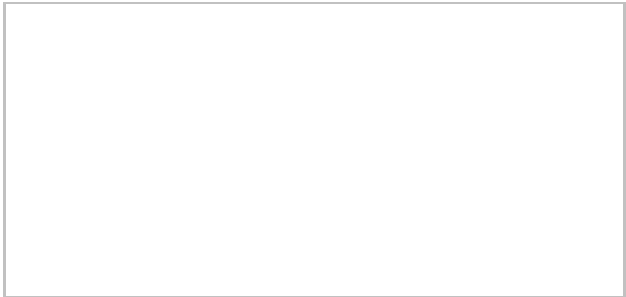




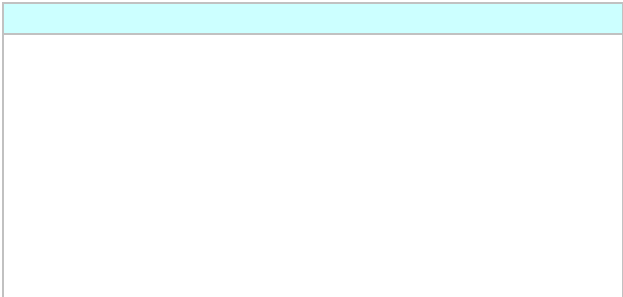


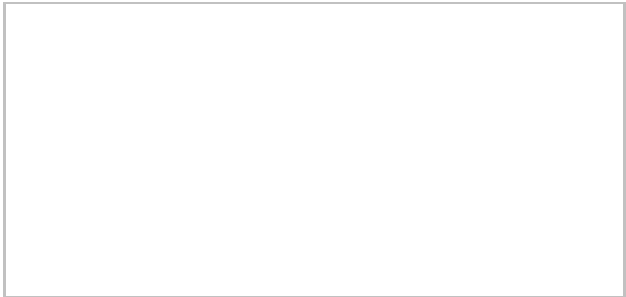


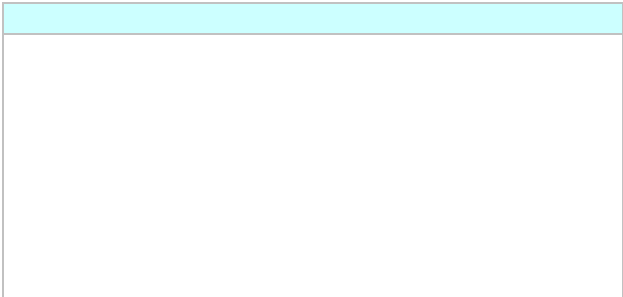


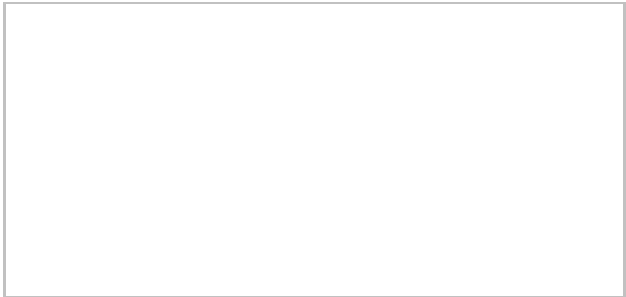


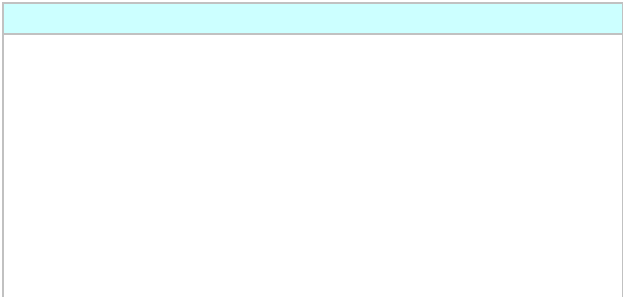


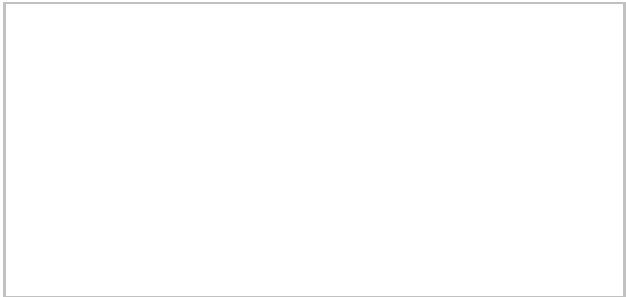


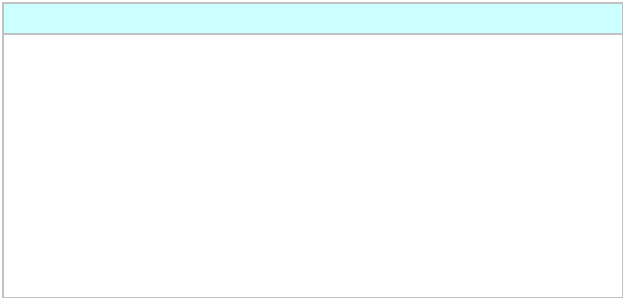


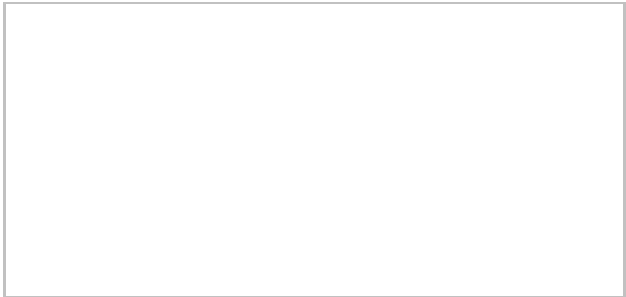






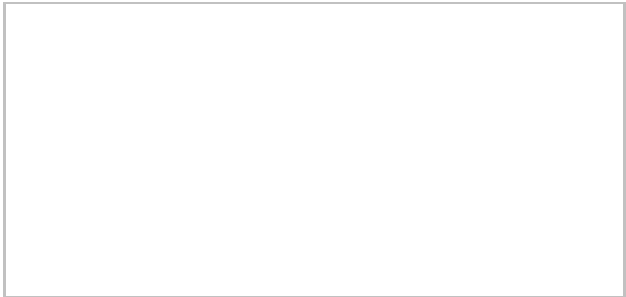




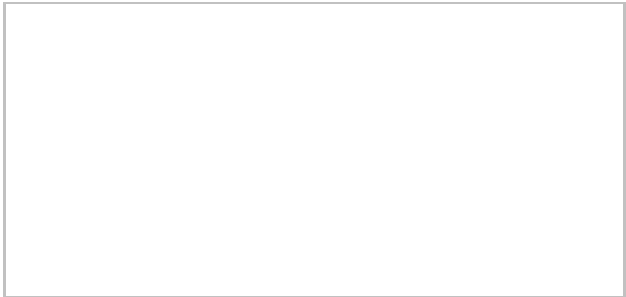


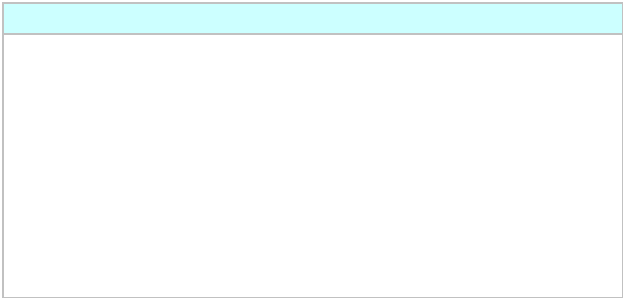


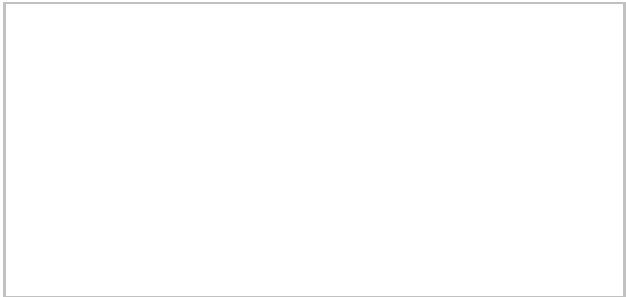


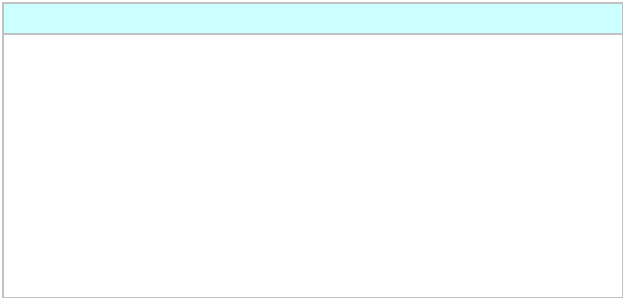


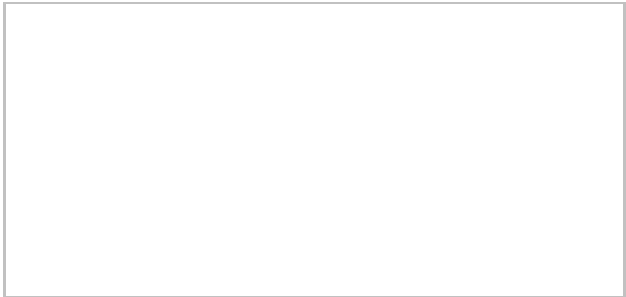














## Impression des MémoCartes

Papier MicroApplication A4 200 g/m<sup>2</sup>

Cartes de Visite 9x5 cm Haute Qualité Recto/Verso