

Ex exp

1 $A = e^8$ et $B = e^{-1}$.

2 $A = e$ et $B = e^4$.

3 $a = c$ et $b = d = f$.

4 $A = e^0$ et $B = e^{-3}$.

5 $A = e^4$ et $B = e^2$.

6 $A = e^{\frac{29}{5}}$

7 $A = e^{-5}$; $B = e^{-3}$; $C = e^{-5}$.

8 $A = e^{8x-8}$; $B = e^{6x-7}$; $C = e^{-8x-4}$.

9 $A(x) = e^x - 6e^{2x}$.

10 $B(x) = e^x - 1$.

11 $C(x) = 1 + e^{-x}$.

12 $\frac{e^x - e^{-x}}{e^x + e^{-x}} = \frac{(e^x)(1 - e^{-2x})}{(e^x)(1 + e^{-2x})} = \frac{1 - e^{-2x}}{1 + e^{-2x}}$.

13 $(e^x + 1)(e^x - 1) = e^{2x} - 1$
car $(a+b)(a-b) = a^2 - b^2$.

14 $(e^x + 1)^2 = e^{2x} + 2e^x + 1$
car $(a+b)^2 = a^2 + 2ab + b^2$.

15 $(e^{\frac{x}{2}} - 1)(e^{\frac{x}{2}} + 1) = (e^{\frac{x}{2}})^2 - 1 = e^x - 1$.

76 $f'(x) = e^x$

77 $f'(x) = 3e^x - \frac{1}{x^2}$

78 $f'(x) = 2x - e^{-x}$

79 $f'(x) = \frac{1}{2\sqrt{x}} + 10e^{2x}$

80 $f'(x) = 6x - e^x$

81 $f'(x) = -e^{-x}$

82 $f'(x) = -\frac{1}{x^2} + 3e^x$

83 $f'(x) = e^x + xe^x$

84 $f'(x) = \frac{e^x - xe^x}{e^{2x}}$

85 $\frac{e^x(e^x - 1) - (e^x + 1)e^x}{(e^x - 1)^2} = -\frac{2e^x}{(e^x - 1)^2}$