

Exercises

- ① Show that the area of a Pythagoras triangle as shown in theory
($a < b < c$ and $a^2 = b+c$)
with $a=g$ equals 1800

- ② Show that the derivative of
 $\int_{\sin(x)}^{\cos(x)} \sqrt{1-t^2} dt$ equals -1.

- ③ Show that the integral

$$\int \sin(2x) \cos(3x) dx$$

$$\text{equals } \frac{3}{5} \sin(2x) \sin(3x) + \frac{2}{5} \cos(2x) \cos(3x) + C$$

I
n
t
e
g
r
a
t
i
o
n

D
i
f
f
e
r
e
n
t
i
o
n

B
a
s
i
c
s