Homework 5

Author Minhyuk Nam Date 05/21/2018

```
syms x
f(x) = x^2 + x + 3
g(x) = cos(x)
h(x) = exp(x)

double(limit(f(x), x, 10))
double(limit(g(x), x, 10))
double(limit(h(x), x, 10))

subs(diff(f(x), x), 10)
subs(diff(g(x), x), 10)
subs(diff(h(x), x), 10)

int(f(x), x, 1, 10)
int(g(x), x, 1, 10)
int(h(x), x, 1, 10)
```

f(x) =

x^2 + x + 3

g(x) =

cos(x)

h(x) =

exp(x)

ans =

   113

ans =

   -0.8391

ans =

   2.2026e+04

ans =

```
21


ans =

-sin(10)


ans =

exp(10)


ans =

819/2


ans =

sin(10) - sin(1)


ans =

exp(10) - exp(1)
```

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