

IALP 2011 – Octave TP4-solutions

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MI EET 1º ano



Exercise 4:

```
%%% a)
x = input("Give value for x: ");
f = (exp(x)+exp(-x))/2 -1;
printf("%g\n", f);
```

```
%%% b)
x = linspace(-10,10,101);
f = (exp(x)+exp(-x))/2 -1;
plot(x, f, 'r-');
```

```
%%% c)
r = linspace(-5, 2, 101);
x = 10.^r;
f = (exp(x)+exp(-x))/2 -1;
loglog(x, f, 'r-');
```

Exercise 5:

```
t = input("Give temperature: ");
if (t<36.4)
    disp("Too low temperature");
elseif (t<37.5)
    disp("Normal temperature");
elseif (t<39.4)
    disp("Slight fever");
else
    disp("High fever. See doctor");
endif
```