MATHEMATICAL FUNCTIONS

Exercises:

```
    int p=10000, r=10, t=5;
float si, ci;
si = (p*r*t)/100.0;
ci = p*pow((1+r/100.0), t) - p;
printf("Simple Interest = %0.2f\n", si);
printf("Compound Interest = %0.2f", ci);
    int n=5, i;
float sum=0;
for(i=1; i<=n; i++)
        sum+=(pow(i, 1.0/i)/exp(i));
printf("Sum = %.2f", sum);</li>
```

Interview Questions:

1) Difference between round() and trunc() functions.

round()	trunc()
1) It returns the nearest	1) It returns the integral part,
integer by rounding off the	after removing the decimal

argument passed as	part of the argument passed
parameter.	as parameter.
2) e.g. round(5.7) gives us 6	2) e.g. trunc(5.7) gives us 5

2) Difference between abs() and fabs().

abs()	fabs()
1) It returns the absolute value	1) It returns the absolute value
of integers.	of any real number.
2) Defined in stdlib.h	2) Defined in math.h
3) e.g. abs(-5) gives us 5	3) e.g. fabs(-5.7) gives us 5.7

- 3) a
- 4) thx = sinh(x)/cosh(x);
- 5) shx = (1 exp(2*x))/(2*exp(-x));