# Initial variables

t0 = 0.68

t1 = 0.69

z0 = 22 % z when t = t0

z1 = 6.6 % z when t = t1

A = 6.6 % trivial, when t=t1, A is equal to z --> 6.6

# Now, for n = 2

syms B\_2

z\_2 = @(t) A + B\_2\*(t1-t)^2;

solve\_2 = solve(z\_2(t0) == 22);

Let's see the values of A and B

A

B = solve\_2

Now, let's prove that they are correct

z\_2\_t1 = double(A + B\*(t1-t1)^2)

z\_2\_t0 = double(A + B\*(t1-t0)^2)

YES!

# Now, for n = 4

syms B\_4

z\_4 = @(t) A + B\_4\*(t1-t)^4;

solve\_4 = solve(z\_4(t0) == 22);

Let's see the values of A and B

A

B = solve\_4

Now, let's prove that they are correct

z\_4\_t1 = double(A + B\*(t1-t1)^4)

z\_4\_t0 = double(A + B\*(t1-t0)^4)

YES!