1. $f(y) = \cos(y)$

$y_0 = 0.05$

$0 = \cos(y)$

adding y to both sides

$y = \cos(y) + y$

then $y = 0.05$

$f(y) = \cos(0.05) + 0.05$

$f(y) = 1.05$

y	$f(y)$
0.05	$\cos(0.05) + 0.05 = 1.05$
1.05	$\cos(1.05) + 1.05 = 2.0499$
2.0499	$\cos(2.0499) + 2.0499 = 3.0493$
3.0493	$\cos(3.0493) + 3.0493 = 4.0479$
4.0479	$\cos(4.0479) + 4.0479 = 5.0454$

2. $f(z) = e^{-15z} - z + \cos(z)$

$0 = e^{-15z} - z + \cos(z)$

$z = e^{-15z} + \cos(z)$

$z_{i+1} = e^{-15z_i} + \cos(z_i)$

guess value : $z = 0.1$

z z_i	z_{i+1}
0.1	$e^{-15(0.1)} + \cos(0.1) = 1.2211$
1.2211	$e^{-15(1.2211)} + \cos(1.2211) = 0.9998$
0.9998	$e^{-15(0.9998)} + \cos(0.9998) = 0.99985$
0.99985	$e^{-15(0.99985)} + \cos(0.99985) = 0.99985$
0.99985	$e^{-15(0.99985)} + \cos(0.99985) = 0.99985$