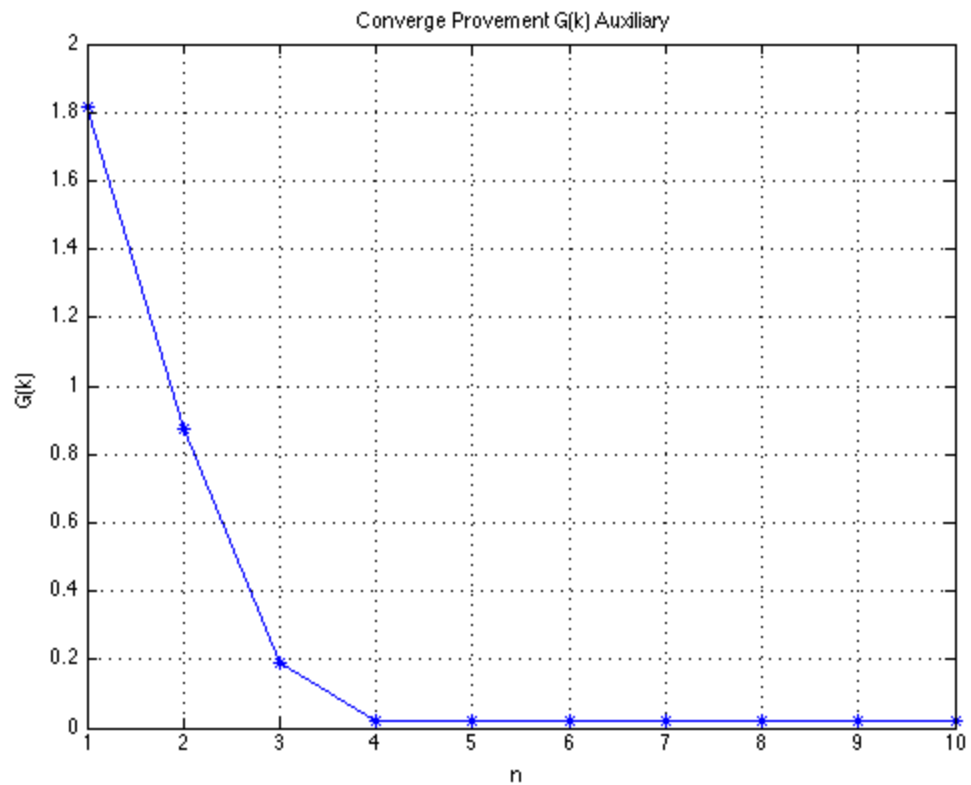

```

n = 10;
x = 1 : 1 : n;
xn = zeros(1, n);
xn(1) = 2;
g = zeros(1, n);
for i = 2 : n
    temp = 0;
    temp1 = 0;
    for j = 1 : 10
        temp = temp + tanh(xn(i - 1) + j ^ -0.5);
        temp1 = temp1 + log(cosh(xn(i - 1) + j ^ -0.5));
    end
    xn(i) = xn(i - 1) - 0.1 * temp;
    g(i - 1) = temp1 * 0.1;
end
g(n) = g(n - 1);
h = plot(x, g, '*-');
grid on;
title('Converge Provement G(k) Auxiliary');
xlabel('n');
ylabel('G(k)');

```



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