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function z = fixpoint_plot(z0,x0,prevCar,h, ref)
    z = z0;
    tol = 10^-6;
    err = 1;
    diff = [];

    while err >= tol
        diff = [diff, abs(z-ref)];

        ztemp = x0 + h * f(prevCar-z);
        err = abs(ztemp - z);
        z = ztemp;
    end
    counts = linspace(1, length(diff), length(diff));

    figure(666)
    set(gca, 'yscale', 'log')
    hold on
    semilogy(counts, diff);
    disp(diff);

end
```

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