# fixed point

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| Classification | msc 03-00 |
| Related topic | BanachFixedPointTheorem |
| Related topic | BrouwerFixedPointTheorem |
| Related topic | SchauderFixedPointTheorem |
| Related topic | FixedPointProperty |
| Related topic | TarskiKnasterTheorem |

A fixed point $x$ of a function $f \colon X \to X$, is a point that remains constant upon application of that function, i.e.:

$$f(x) = x.$$