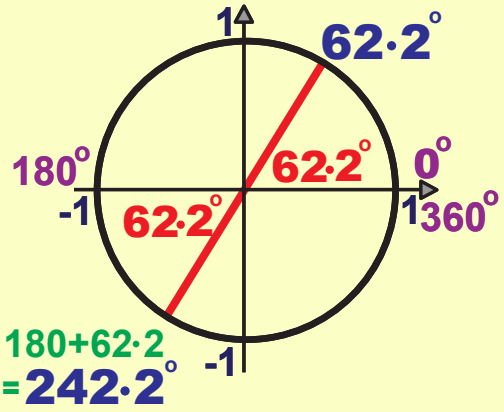
Find x in the following:

① $2\tan x^\circ - 5 = 0 \quad 0^\circ \leqslant x < 360^\circ$

② $2\tan x^\circ + 1 = 0 \quad 0^\circ \leqslant x < 360^\circ$

①

tan is Gradient



$2\tan x - 5 + 5 = 0 + 5$

$\frac{2\tan x}{2} = \frac{5}{2}$

$\tan x = 2{\cdot}5$

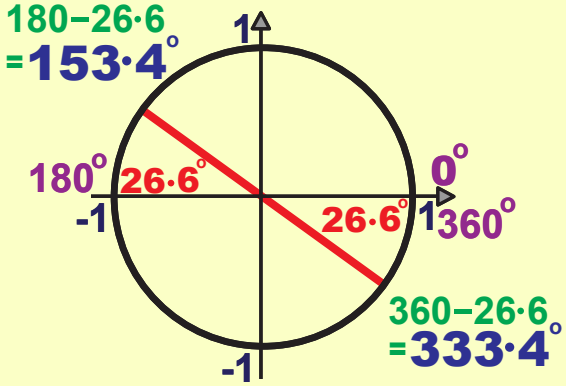
$x = 62{\cdot}2^\circ$

$x = 62{\cdot}2^\circ$

$x = 242{\cdot}2^\circ$

②

tan is Gradient



$2\tan x + 1 - 1 = 0 - 1$

$\frac{2\tan x}{2} = \frac{-1}{2}$

$\tan x = -0{\cdot}5$

Making tan x Positive

$\tan x = 0{\cdot}5$

$x = 26{\cdot}6^\circ$

$x = 153{\cdot}4^\circ$

$x = 333{\cdot}4^\circ$