



8.3 – Extension to the four quadrants

Student name: _____ Score: _____

1. α is acute and $\tan \alpha = x$.

Find, in terms of x ,

(a) $\tan(180 - \alpha)$,

$\tan(180 - \alpha) = \dots\dots\dots$ [1]

(b) $\tan(90 - \alpha)$.

$\tan(90 - \alpha) = \dots\dots\dots$ [1]

2. $\tan x = k$ $0^\circ < x < 90^\circ$

Find, in terms of k ,

(a) $\tan(180^\circ - x)$,

$\dots\dots\dots$ [1]

(b) $\tan(90^\circ - x)$.

$\dots\dots\dots$ [1]