

8.3 – Extension to the four quadrants

Student name: _____ Score: _____

1. α is acute and $\tan \alpha = x$.

Find, in terms of x,

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

 $\tan(180 - \alpha) = \frac{-x}{2}$ [1]

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

 $\tan(90 - \alpha) = \frac{\overline{x}}{x}$

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

Find, in terms of k,

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

______[1]

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

.....[1]