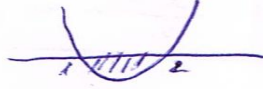


2.4

$$3\sin^2 x + \cos^2 x > 2 \quad /: \cos^2 x \neq 0$$

$$\tan^2 x + 3\tan x > 2 + 2\tan^2 x \rightarrow 0 > \tan^2 x - 3\tan x + 2$$



$$1 < \tan x < 2$$

$$\frac{\pi}{4} + \pi k < x < \arctan(2) + \pi k$$