

2.47  
17

$$\tan^2 x - 20 \cos^2 x + 2 = 0$$

$$\tan^2 x + 1 - 20 \cos^2 x + 1 = 0$$

$$\frac{1}{\cos^2 x} - 20 \cos^2 x + 1 = 0$$

$$20 \cos^4 x - \cos^2 x - 1 = 0$$

$$\cos^2 x = \frac{1}{4} \rightarrow$$

$$\cos^2 x = -\frac{1}{4} \rightarrow \emptyset$$

$x = \pm \frac{\pi}{3} + 2\pi k$
$x = \pm \frac{2\pi}{3} + 2\pi k$

$$x \neq \frac{\pi}{2} + \pi k$$

missen p/h