

249  
1.8

$$\sin 2x \sin 3x - \cos 2x \cos 3x > \sin 10x$$

$$-\cos 5x > 2 \sin 5x \cos 5x$$

$$\cos 5x (1 + 2 \sin 5x) < 0$$

$$5x = \frac{\pi}{2} + \pi k$$

$$x = \frac{\pi}{10} + \frac{\pi k}{5}$$

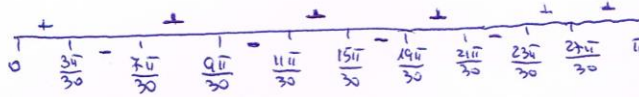
$$\sin 5x = -\frac{1}{2}$$

$$5x = \frac{7\pi}{6} + 2\pi k$$

$$x = \frac{7\pi}{30} + \frac{2\pi k}{5}$$

$$5x = \frac{11\pi}{6} + 2\pi k$$

$$x = \frac{11\pi}{30} + \frac{2\pi k}{5}$$



$$\frac{12\pi}{30}k + \frac{\pi}{10} < x < \frac{7\pi}{30} + \frac{12\pi}{30}k$$

$$\frac{12\pi}{30}k + \frac{9\pi}{30} < x < \frac{11\pi}{30} + \frac{12\pi}{30}k$$

$$\boxed{\begin{array}{l} \frac{2\pi k}{5} + \frac{\pi}{10} < x < \frac{7\pi}{30} + \frac{2\pi k}{5} \\ \frac{2\pi k}{5} + \frac{9\pi}{30} < x < \frac{11\pi}{30} + \frac{2\pi k}{5} \end{array}}$$