Решите тригонометрическое неравенство $2\sin^2 x + \sin x \geqslant 0$.

1) $\bigcup\limits_{k\in\mathbb{Z}} [2\pi k;\ \pi + 2\pi k] \cup \left[\frac{7\pi}{6} + 2\pi k;\ \frac{11\pi}{6} + 2\pi k\right)$.

2) $\bigcup\limits_{k\in\mathbb{Z}} [2\pi k;\ \pi + 2\pi k] \cup \left[\frac{7\pi}{6} + 2\pi k;\ \frac{11\pi}{6} + 2\pi k\right]$

3) $\bigcup\limits_{k\in\mathbb{Z}} [2\pi k;\ \pi + 2\pi k] \cup \left(\frac{7\pi}{6} + 2\pi k;\ \frac{11\pi}{6} + 2\pi k\right]$.

4) $\bigcup\limits_{k\in\mathbb{Z}} [2\pi k;\ \pi + 2\pi k] \cup \left[\frac{7\pi}{6} + \pi k;\ \frac{11\pi}{6} + \pi k\right]$.

5) $\bigcup\limits_{k\in\mathbb{Z}} [2\pi k;\ \pi + 2\pi k] \cup \left[\frac{7\pi}{6} + 4\pi k;\ \frac{11\pi}{6} + 4\pi k\right]$.

6) $\bigcup\limits_{k\in\mathbb{Z}} [2\pi k;\ \pi + 2\pi k] \cup \left(\frac{7\pi}{6} + 2\pi k;\ \frac{11\pi}{6} + 2\pi k\right)$.