

$$y' = -2 \sin 3x - x$$

$$y'' = -6 \cos 3x - 1$$

$$-6 \cos 3x - 1 \leq 0$$

$$-6 \cos 3x \leq 1 \quad | : (-6)$$

$$\cos 3x \geq -\frac{1}{6}$$

$$-\frac{\arccos(-\frac{1}{6})}{3} + \frac{2\pi}{3}n \leq x \leq \frac{\arccos(-\frac{1}{6})}{3} + \frac{2\pi}{3}n$$

~~$$3x = \pm \arccos(-\frac{1}{6}) + 2\pi n$$~~

$$\cos 3x = -\frac{1}{6}$$

$$3x = \pm \arccos(-\frac{1}{6}) + 2\pi n$$

$$x = \pm \frac{\arccos(-\frac{1}{6})}{3} + \frac{2\pi}{3}n$$

~~$$\frac{\arccos}{3} \leq x \leq \frac{\arccos}{3}$$~~