

Answer on Question#39428, Math, Trigonometry

We are given $0 < \theta < 2\pi$, $\operatorname{tg}\theta = -0.6$, $\sin\theta < 0$.

Since $\operatorname{tg}\theta = \frac{\sin\theta}{\cos\theta} = -0.6 < 0$ and $\sin\theta < 0$, thus $\cos\theta > 0$, so $-\frac{\pi}{2} < \theta < \frac{\pi}{2}$. Solution

$\theta = \arctan(-0.6) \approx -30.96$ *degrees* satisfies given conditions.