Bellwork 8/23 (5 Minutes)

[Linear Models]

On an arbitrarily chosen Planet X, the average global temperature ($Q_{\rm avg}$) is currently increasing at a rate of 0.156°C per decade. Right now, the planet's average global temperature is at 21.4°C.

- Write an equation that models the average global temperature of Planet X in t decades from now.
- ② Using your linear model, approximate the amount of time it will take for the planet to exceed a $Q_{\rm avg}$ of 25°C.

