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| When a certain grocery store opens, it has 50 pounds of bananas on a display table. Customers remove bananas from the display table at a rate modeled by$f\left(t\right)=10+\left(0.8t\right)sin\left(\frac{t^{3}}{100}\right) for 0\leq t\leq 12$,where $f(t)$ is measured in pounds per hour and $t$ is the number of hours after the store opened. How many pounds of bananas are removed from the display table during the first 2 hours the store is open? | When a certain grocery store opens, it has 50 pounds of bananas on a display table. Customers remove bananas from the display table at a rate modeled by$f\left(t\right)=10+\left(0.8t\right)sin\left(\frac{t^{3}}{100}\right) for 0\leq t\leq 12$,where $f(t)$ is measured in pounds per hour and $t$ is the number of hours after the store opened. How many pounds of bananas are removed from the display table during the first 2 hours the store is open? |
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