#52. Velocity = (displacement)’ \Rightarrow \text{displacement} = \int \text{velocity} \\
\text{In particular for this problem distance} = \int_0^5 v(t) \, dt \text{ \ is asked} \\
\text{This integral is the area under the curve} \\
of v(t) \text{ from} \ t = 0 \ \text{to} \ t = 5. \\
\text{Counting the number of squares under the curve and noticing} \\
\text{that each square has an area of} \ 5, \ \text{we approximate} \\
\text{the distance by} \quad \frac{29 \text{ squares times } 5 = 145 \text{ ft}}.