Distance vs. Time Graph
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10:31 AM


Tangent
A straight line that just touches the curve at one point.
The slop of the Tangent for a distance vs. Time graph is the instantaneous velocity. -The velocity of the object at that time and location

The slop of the Tangent for a Velocity vs. Time graph is the instantaneous acceleration. -The acceleration of the object at that time and location

$$
\text { Slope }=\frac{\text { rise }}{\text { run }}=\frac{125 \mathrm{~m}}{5 \mathrm{~s}}=25 \mathrm{~m} / \mathrm{s}
$$

at $t=6.5 \mathrm{sec}$ and ot 80 m our object is travelling at $25 \mathrm{~m} / \mathrm{s}$

