Acceleration Notes

Look at the graph below, how is an acceleration graph different from a distance time graph?

D-T = 0 speed
V-T = constant speed

Unit
- a distance & a time squared
m/s², mi/hr²

Acceleration: change in velocity over time

Positive Acceleration: acceleration (force) in the SAME direction of motion

Ex)"speeding up"- peddling harder on a bike causing it to speed up

Zero Acceleration: constant velocity

Ex)"constant velocity"- driving on cruise control

Negative Acceleration: acceleration (force) in the OPPOSITE direction of motion

Ex)"slowing down"- pushing on the breaks of a bike

Determine whether each graph is depicting acceleration, deceleration, or no acceleration.

"Turning" - a force is applied at an angle