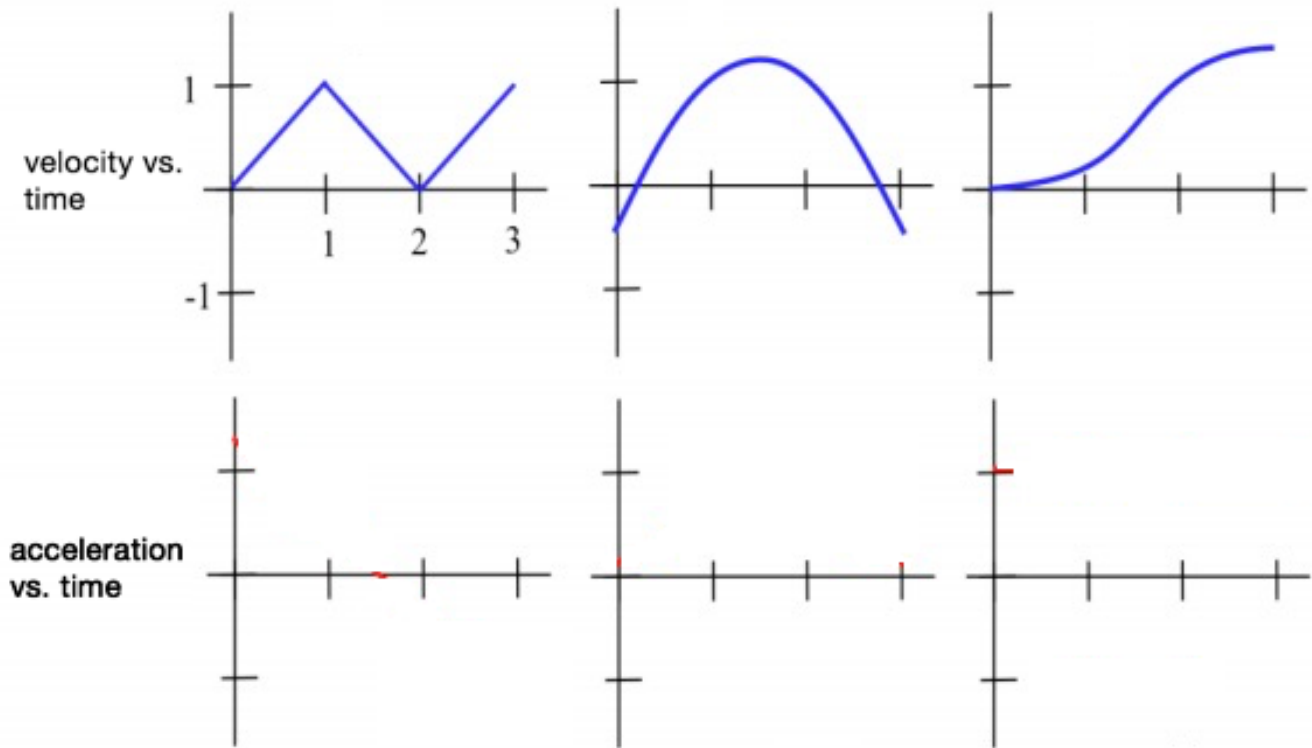
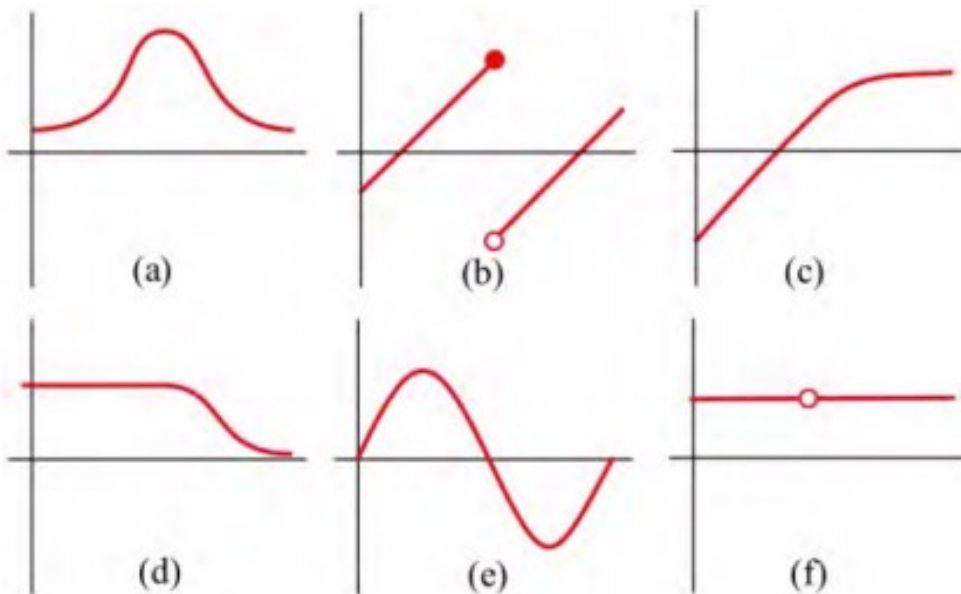


HW 5.3.3: An Advanced Qualitative Look at Rates

1.) Sketch the acceleration vs. time graph for each of the velocity vs. time.



2.) Below are six graphs, three of which are derivatives of the other three. Match the functions with their derivatives.



3.) Match the situation descriptions with the corresponding velocity vs time graphs in Fig. 16.

- a. A car quickly leaving from a stop sign.
- b. A car sedately leaving from a stop sign.
- c. A student bouncing on a trampoline.
- d. A ball thrown straight up.
- e. A student confidently striding across campus to take a Precalculus test.

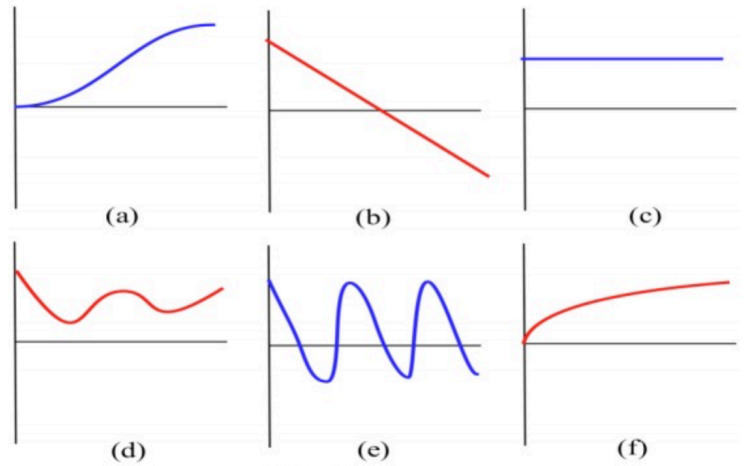


Fig. 16

- f. An unprepared student walking across campus to take a Precalculus test.