**Alg 2: 3.1 and 3.2—Fines for Speeding**

The amount a driver is fined for speeding is a function of the amount by which the speed exceeds the legal speed limit. In some states these functions are linear functions; in other states they are piecewise linear.

Using the fines table below, describe the speeding-fine function using:

1. a table



1. a graph. What are the domain and range?
2. What type of function is this?   
   (i.e. direct or inverse variation, quadratic, exponential, linear, etc)
3. an equation

All data from

<http://www.mitrafficticket.com/mitrafficticket/pause/fines_costs.htm>

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| **SPEEDING** |
| |  |  |  | | --- | --- | --- | | 1-5 mph over limit (2) | (Limited Access/0pts) | $90.00 | | 6-10 mph over limit (2) | (Limited Access/1pts) | $105.00 | | 11-15 mph over limit (3) | (Limited Access/2pts) | $120.00 | | 16-25 mph over limit (4) | (Limited Access/3pts) | $140.00 | | 26+ mph over limit (4) | (Limited Access/3pts) | $155.00 + $4.00 per mile | | Violation of Basic Speed Law (2) |  | $90.00 | | Drove below minimum speed (2) |  | $90.00 | |
| **MOVING VIOLATIONS** |
| |  |  | | --- | --- | | Amber/Caution Light  (3) | $100.00 | | Careless Driving (3) | $180.00 | | \*Careless Driving / ACCIDENT (3) | $205.00 | | Cutting in and out of Traffic  (2) | $95.00 | | Drove over fire hose (2) | $95.00 | | Drove in unsafe manner (2) | $95.00 | | Fail to Signal (2) | $95.00 | | Fail to stop assured clear distance (FSACD) (2) | $135.00 | | Fail to stop for school bus (3) | $180.00 | | \*Fail to stop for school bus / ACCIDENT (3) | $205.00 | | Fail to stop leaving private drive (2) | $95.00 | | Fail to use due care and caution/Accident (2) | $135.00 | | Follow too close (2) | $95.00 | | Illegal entrance / exit X-way (2) | $100.00 | | Improper crossing/divided highway (2) | $100.00 | | Improper lane usage (2) | $100.00 | | Improper passing (3) | $100.00 | | Passing on shoulder (3) | $100.00 | | Red light (3) | $100.00 | | Right turn on red without stopping (3) | $100.00 | | Stop sign (3) | $100.00 | | Wrong way on one way (2) | $100.00 | |
| **DISOBEY TRAFFIC CONTROL DEVICES** |
| |  |  | | --- | --- | | Avoid traffic control device (2) | $100.00 | | Drove through barricade (2) | $100.00 | | Drove through private property / avoid signal (2) | $100.00 | | Drove around railroad gates (3) | $135.00 | | Ignore left (right) turn only sign (2) | $100.00 | | Ignore yield sign (2) | $100.00 | |
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