

- 7 A stone of mass  $m$  is dropped from a tall building. There is significant air resistance. The acceleration of free fall is  $g$ .

When the stone is falling at a constant (terminal) velocity, which information is correct?

	magnitude of the acceleration of the stone	magnitude of the force of gravity on the stone	magnitude of the force of air resistance on the stone
<b>A</b>	$g$	zero	$mg$
<b>B</b>	zero	$mg$	$mg$
<b>C</b>	zero	zero	$mg$
<b>D</b>	zero	$mg$	zero