

- 20** A positively charged oil droplet falls in air that has a uniform electric field pointing vertically upwards. The droplet has a terminal speed  $v_0$  and the electric field strength is  $E$ .

The magnitude of the force due to air resistance acting on the droplet is proportional to the speed of the droplet.

Which graph shows the variation with  $E$  of  $v_0$ ?

