

**20**  $y \propto \frac{1}{\sqrt{x}}$

**(a)** When  $x = 9$ ,  $y = 2$ .

Find the value of  $y$  when  $x = 36$ .

$y = \dots\dots\dots [3]$

**(b)** When  $x$  is increased by a factor of 4, the value of  $y$  changes by a factor of  $p$ .

Find the value of  $p$ .

$p = \dots\dots\dots [1]$