

**2** The graph of  $y = 5^x$  is transformed by a stretch in the  $y$ -direction, scale factor 5

State the equation of the transformed graph.

Circle your answer.

**[1 mark]**

$$y = 5 \times 5^x$$

$$y = 5^{\frac{x}{5}}$$

$$y = \frac{1}{5} \times 5^x$$

$$y = 5^{5x}$$