

| c) <br> y is inversely proportional to the cube of x . $y=4$ when $x=3$. <br> Find a formula linking x and y . |  | d) <br> y is inversely proportional to the square root of x . $y=5$ when $x=36$. |
| :---: | :---: | :---: |
|  |  | Find a formula linking x and y . |
| Write the relationship using the proportionality symbol | $y \propto \frac{1}{x^{3}}$ |  |
| Write the relationship as a formula | $y=\frac{k}{x^{3}}$ |  |
| Substitute the known values of y and x |  |  |
| Rearrange to find the value of $k$ |  |  |
| Re-write the formula with the identified value of k |  |  |

