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| 1st April |  |
| :---: | :---: |
| A circle has centre $(7,2)$ and radius 5. <br> Write down the equation of the circle | Corbettmoths |
| $f(x)=x^{2}-8 \quad$ for all values of x <br> $g(x)=6-7 x \quad$ for all values of x | Work out the range of $f(x)$ |
| Solve $f(x)=4 g(x)$ <br> Give each answer to 1 decimal place. |  |
| The unit square $O A B C$ is transformed by a reflection in the $y$-axis followed by enlargement scale factor 3 , centre the origin. <br> What is the matrix of the combined transformation? |  |

