

21st July

Corbettmaths

Find the range of values of x that satisfies both

$$3(x + 1) \leq 32 \quad \text{and} \quad x^2 < 144$$

$$x : y = 2 : 11$$

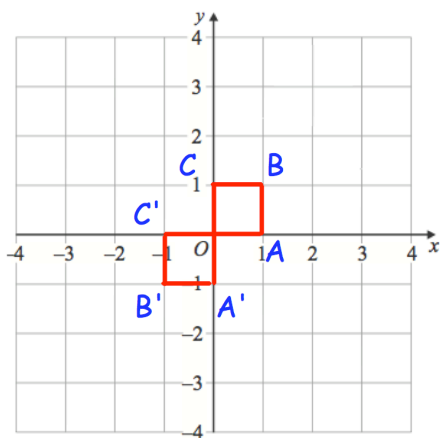
$$y : z = 3 : 4$$

Write x in terms of z

Expand and simplify

$$\left(x^2 + \frac{1}{x}\right)\left(x - \frac{1}{x}\right)$$

OABC is mapped to OA'B'C' under transformation matrix **M**



Work out matrix **M**