

25th May

Corbettmaths

The n th term of a sequence is
 $n^2 - 10n + 27$

By using completing the square, show that every term is positive.

Two ships, A and B, leave a port at midday.

Ship A travelled on a bearing of 055° at a speed of 15km/h

Ship B travelled on a bearing of 120° at a speed of 25km/h

What is the bearing of ship A from ship B at 15:00?

$$-7 < a < -2 \quad \text{and} \quad -5 < b < -1$$

 ab

Write down an inequality for each of the following

a^2

$\frac{a}{b}$