

20th May

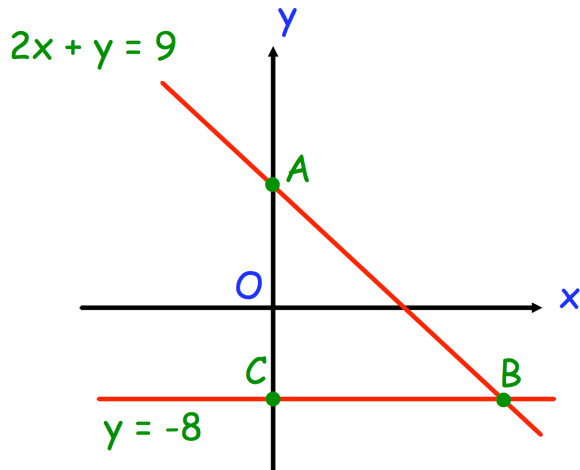
Corbettmaths

Find the set of values of x that satisfies both

$$2x^2 - 7x - 22 < 8$$

and

$$5x - 7 > 7 - x$$



Calculate the area of triangle ABC.

A ship leaves a port A and travels 12km on a bearing of 200° to reach B. It then travels 20km due west to reach C.

Work out the bearing of A from C.

$$y = \frac{8x^{11} + x^7}{4x^5}$$

Work out the value of $\frac{d^2y}{dx^2}$ when $x = 2$