

20th November



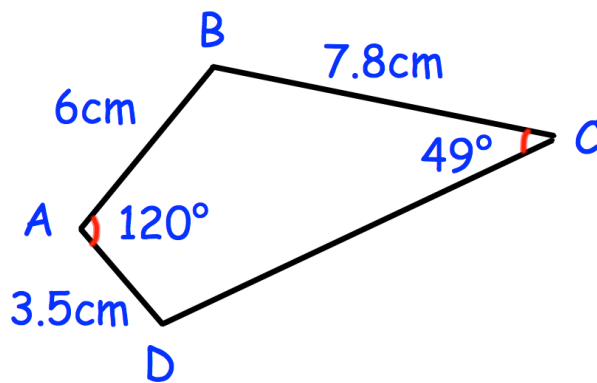
Corbettmaths

Write down the exact value of

$$\sin 150^\circ$$

$$(ax + 1)(x - 3)(x + b) = 2x^3 - 3x^2 - 8x - 3$$

Find a and b



Calculate the length BD

Calculate the area of ABCD

Charlotte and Ben invest money for 4 years.  
 Charlotte's bank paid 4% interest for the first year and then 1% interest for the other years.  
 Ben's bank pays the same percentage interest each year.

The invest the same amount of money and have the same amount of money at the end of 4 years.  
 Work out the percentage interest that Ben's bank pays.