26th May

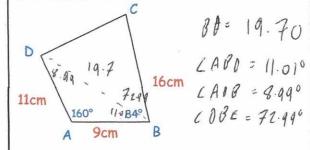
Write $x^2 + 4x + 9$ in the form $(x + a)^2 + b$

$$(x+2)^{2}-4+9$$

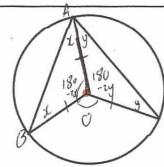
 $(x+2)^{2}+5$

Corbettmaths

Find the coordinates of the turning point of $y = x^2 + 4x + 9$



Calculate the length CD.



(A CABO=2) Prove that the angle at the centre is $CABC = CBAO = \chi$ twice the angle at the circumference.

LABC =
$$CBAO = X$$
 twice the angle at the circumference.

LAOB = $180 - 2X$ (angles in a triangle)

LAOC = $180 - 2y$ "

COCA = $CCAO = y$ "

LBOC = $2x + 2y$ (ungles at a point)

RS isosales

CBOC = $2x + 2y$ (ungles at a point)

Pulse (beats per min) (92,130) 120 (6,110) 100 80 60 10 12 Time (min)

Work out the rate at which the pulse is increasing at three minutes. Include units.

Work out the rate at which the pulse is decreasing at eight minutes. Include units.

Recraining at a rate of 6 beats per min 2