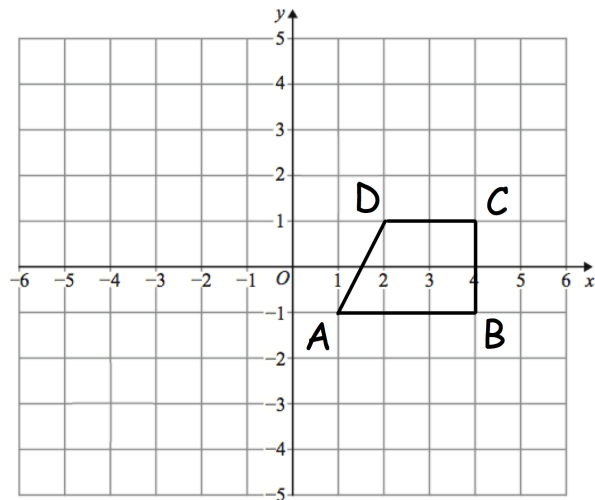




Write $x^2 + 4x + 9$ in the form $(x + a)^2 + b$

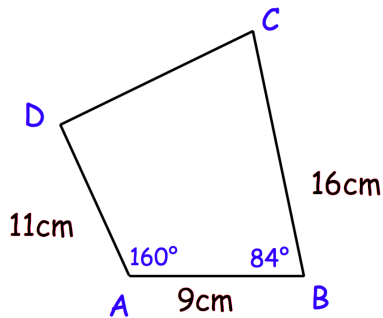
Find the coordinates of the turning point of $y = x^2 + 4x + 9$

Shown below is trapezium ABCD



Describe a single transformation of the trapezium so that only point D is invariant

Describe a single transformation of the trapezium so that all the points on AD are invariant and there are no other invariant points.



Calculate the length CD.

APC is a straight line.
 $CP = BP$
 Angle ABP is twice angle CBP
 Angle BCP = x
 Prove Angle BAC = $(180 - 4x)^\circ$

