



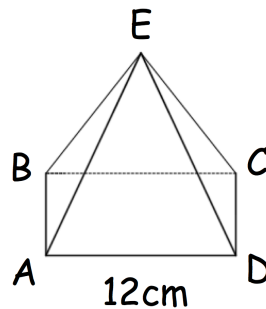
Write 128 in the form 4^n

The line AB has equation $4x + 3y = 9$

Find an equation of the line perpendicular to the line AB that passes through the point $(-3, -1)$

Shown is a square based pyramid. E is directly over the centre of ABCD. The volume of the pyramid is 912cm^3

Find the length of AE.



The equation $x^3 - 2x^2 + 19 = 0$ has a root in the interval $(-3, -2)$

Use an appropriate iteration formula to find an approximate to 1 decimal place for the root of $x^3 - 2x^2 + 19 = 0$ in the interval $(-3, -2)$