2   Points *A*, *B* and *C* have coordinates (2, 5), (5, −1) and (8, 6) respectively.

    (i) Find the coordinates of the mid-point of *AB*.   [1]

    (ii) Find the equation of the line through *C* perpendicular to *AB*. Give your answer in the form $ax + by + c = 0$.   [3]