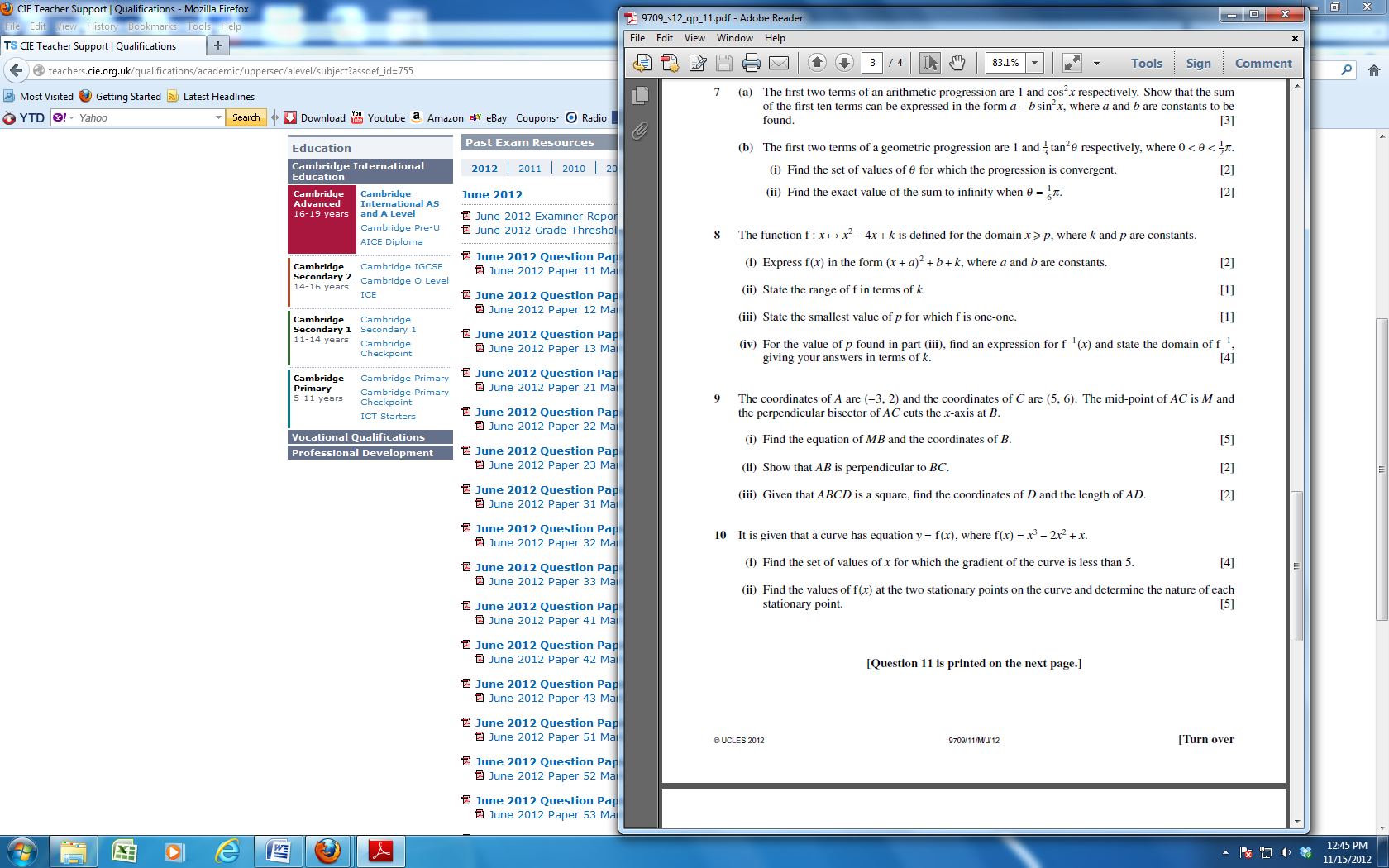
**COORDINATE GEOMETRY QUESTIONS SL**

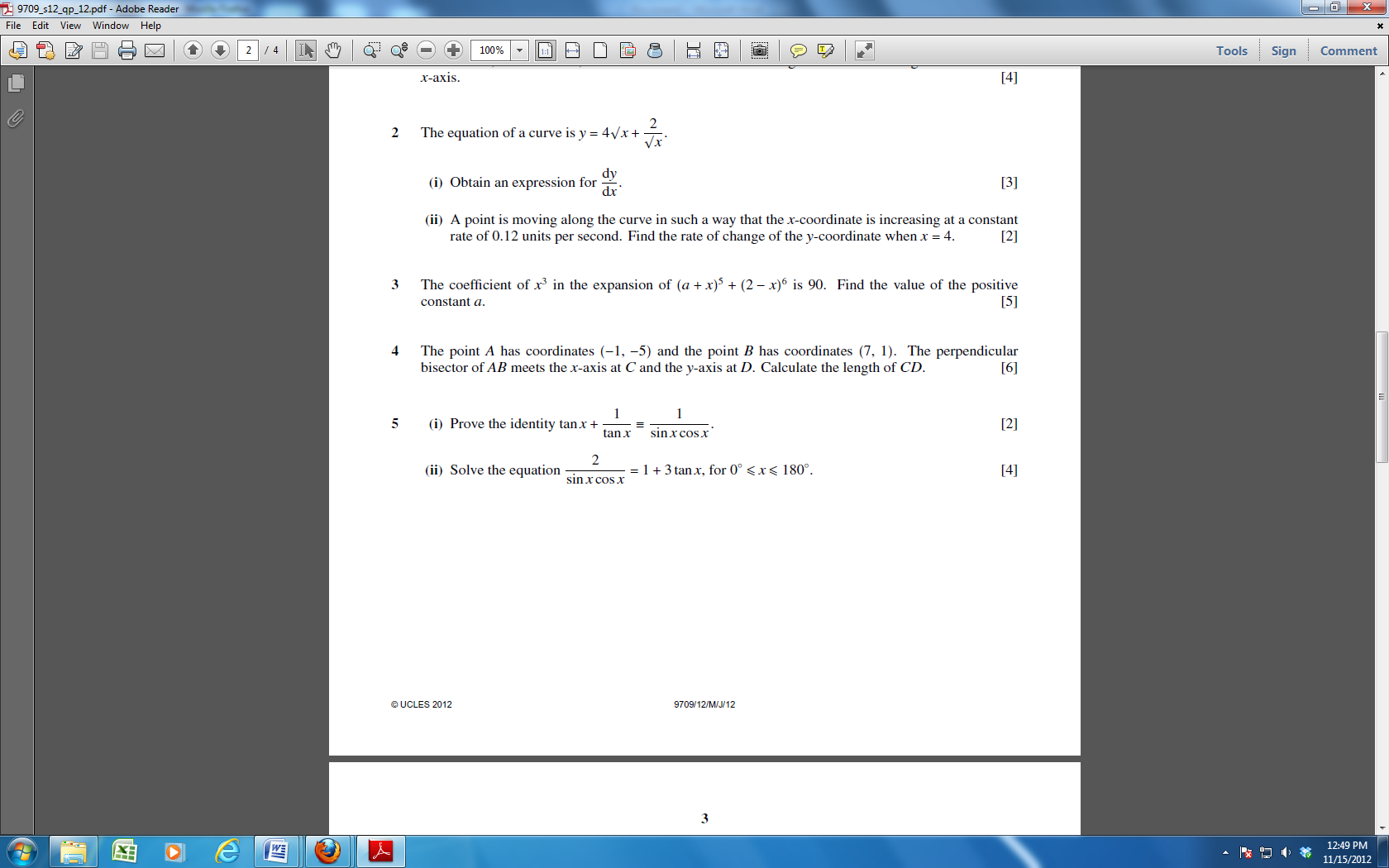
1.



2.



**3.**



**4.**

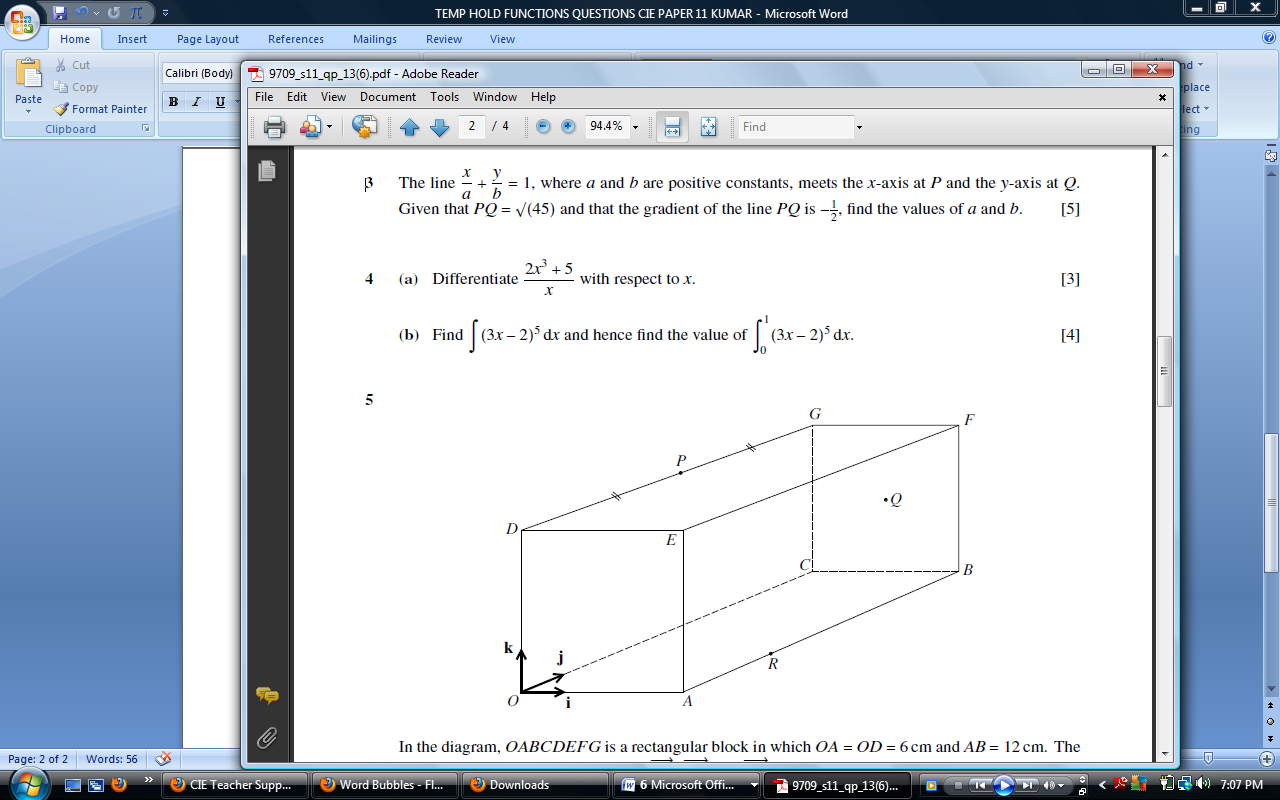
The point *P* lies on the line joining *A*(–1, –5) and *B*(11, 13) such that *AP* = *AB*.

1. Find the equation of the line perpendicular to *AB* and passing through *P*. [5]

The line perpendicular to *AB* passing through *P* and the line parallel to the *x*-axis passing through *B* intersect at the point *Q*.

1. Find the coordinates of the point *Q*. [2]
2. Find the area of the triangle *PBQ*. [2]

5.



**7.**

