Test 9 : Trigonometry 2 Time: 1 hour Marks: 50

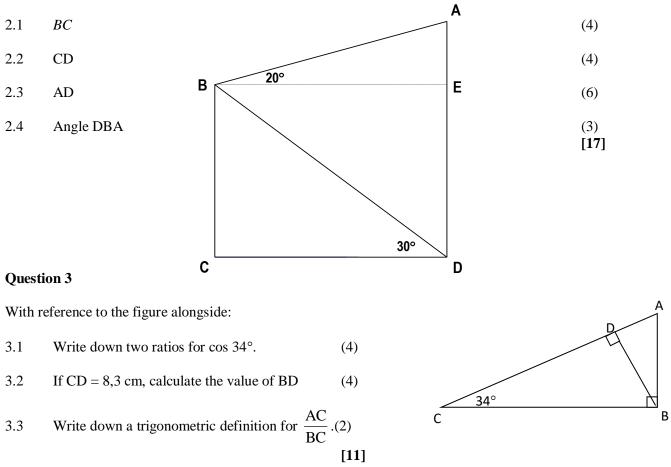
Question 1

Use a calculator to determine θ (correct to ONE decimal place), ($\theta < 90^{\circ}$) in each of the following:

1.1	$3\cos\theta = 5$	
1.2	3 tan $\theta = 5$	
1.3	$5 \sin (2\theta + 10^{\circ}) - 4 = 0$	(10)

Question 2

In the sketch below, ΔBCD is right angled at C, BD = 3 units, $\hat{BDC} = 30^{\circ}$ and $\hat{ABE} = 20^{\circ}$. Also, BCDE is a rectangle. calculate the lengths of



Question 4

In the figure alongside MN \perp NR, \angle MRN = 42°, MN = 8 units, PR = 5 units and PR \perp NR.

