

Answers to N5 Booster Paper C1

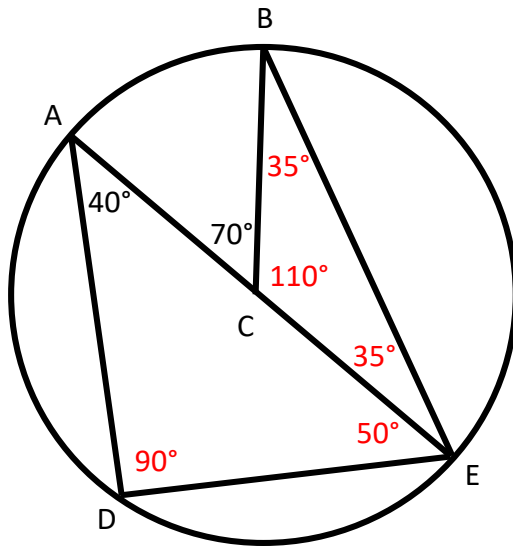


1. $-9x^2 + 15x - 4$

2. $4\frac{8}{15}$

3. 25%

4.



$\hat{B}ED = 85^\circ$

5. (a) $2x(5-12x)$ (b) $2(3-5x)(3+5x)$

6. $(x+5)^2 - 32$ $a = 5, b = 32$

7. $q = \frac{8h-15}{7}$ or $q = \frac{15-8h}{-7}$

8. £75

9. $8x^{-15}$

10. (a) A(-4,0) B(3,0) (b) C(0,-12)

(continued...)

11. (a) $m = -\frac{3}{2}$

(b) $(0, 4)$

(c) $(-2, 7)$ is on the line



12. (a) $3\sqrt{2}$ (b) $\frac{3\sqrt{5}}{4}$

13. (a) $x + y = 23$

(b) $0.1x + 0.5y = 5.5$

(c) There are fifteen 10 pence coins and eight 50 pence coins.

14. (a) $A = l \times b = (x + 6)(x - 3) = x^2 - 3x + 6x - 18 = x^2 + 3x - 18$ as required

(b) $x = 4$, ~~$x = -7$~~ since $x > 3$