

Answers to N5 Booster Paper D1

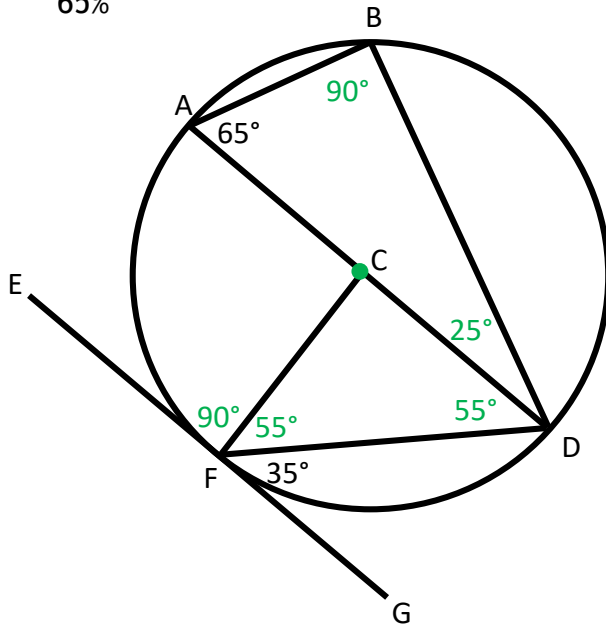


1. $-20x^2 + 20x + 3$

2. $4\frac{1}{2}$

3. 65%

4.



$\hat{BDF} = 80^\circ$

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

6. $(x-6)^2 - 10$ $a=6, b=-10$

7. $p = \frac{q+4}{x-3}$

8. 60000

9. 4

10. (a) $A\left(-\frac{3}{2}, 0\right)$ $B(1, 0)$ (b) $C(0, -3)$

(continued...)

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

(b) $\left(0, -\frac{7}{3}\right)$

(c) Line passes through (5,1)



12. (a) $\frac{2\sqrt{6}}{9}$ (b) $\frac{2\sqrt{6}}{9}$

13. (a) $c + a = 212$

(b) $6c + 10a = 1688$

(c) 108 child tickets and 104 adult tickets were sold

14. (a) $A = l \times b = (x + 4)(x - 3) = x^2 - 3x + 4x - 12 = x^2 + x - 12$ as required

(b) $x = 5$, ~~$x = -6$~~ since $x > 3$