

Answers to N5 Booster Paper B2



1. $x = 66.4^\circ, 293.6^\circ$

2. $x \leq 8$

3. (a) mean = 3 standard deviation = 0.7

(b) On average, more cars used the charging point in 2019 than in 2015. ($7 > 3$)
The number of cars using the charging point each day was more consistent in 2015 than in 2019. ($0.7 < 1.5$)

4. $x = \frac{9}{5}$

5. $3u - 2v = \begin{pmatrix} 22 \\ -12 \\ 13 \end{pmatrix}$

6. £107500

7. $\frac{6x}{5}$

8. 131°

9. “Two equal real roots” or “One repeated real root”

10. 224 cm^3

11. (a) 2.5 metres (b) 4 metres

12. 11.8 cm

13. $x = 1.52, x = -0.92$

14. $x = \frac{1}{2}$

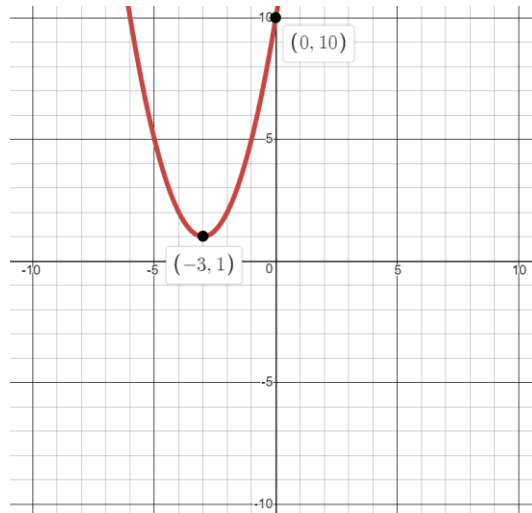
15. $a = 4, b = 2, c = -1$

16. (a) $(-3, 1)$

(b) $x = -3$

(c) $(0, 10)$

(d)



17. (a) 381.7 cm^3

(b) 8 cm