

National 5 Practice Paper E

Answers

Paper 1

Q1. $3\frac{1}{2}$

Q2. $4x^2 - 15x - 10$

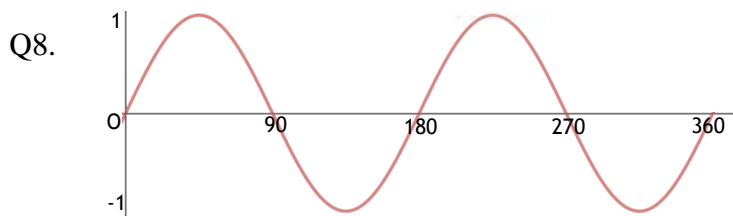
Q3. $y = -2x + 6$

Q4. $x = \frac{2}{7}$

Q5. Proof (using quadratic formula)

Q6. (a) (2,36) (b) $x = 2$ (c) R(-2,20)

Q7. 6 centimetres



Q9. (a) $25\sqrt{2}$ (b) $t = \frac{1}{2}$

Q10. $x = \frac{7}{2}$

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Paper 2

Q1. 3.24×10^{15}

Q2. 187.5 cm^2 (1 decimal place)

Q3. 20°C (nearest degree)

Q4. (a) C(4,3,4), D(6,2,2) (b) B(6,4,2)

Q5. 24 centimetres

Q6. Bead 1.6 centimetres, pearl 0.4 centimetres

Q7. (a) 0.524 cm^3 (3 SF) (b) 0.34 cm (2 decimal places)

Q8. AB = 11.05 kilometres (2 decimal places)

Q9. (a) proof (b) 10.0 metres (3 SF)

Q10. $k \leq 2$

Q11. a $x = 35.3^\circ, 144.7^\circ$ (1 decimal place)

b Proof using the fact that $\tan x = \frac{\sin x}{\cos x}$