

2018 O Level A Maths Paper 1

Suggested answers by Ms Jayme Zhang (Key educator @ Keynote Learning)
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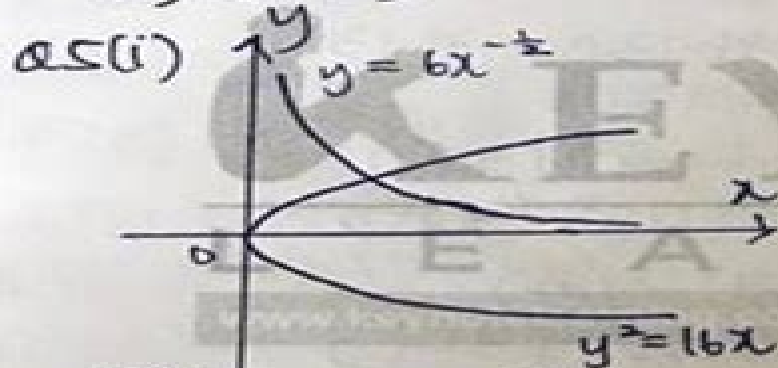
Q1. $5^{-\frac{3}{2}}$

Q2(ii) $2 + \sqrt{3}$

Q3. $\frac{3}{2x-1} + \frac{2x-5}{x^2+4}$

Q4a) a) $a = -6$, $b = -11$

b) $5 - \sqrt{3}$



(ii) $(1.5, 2\sqrt{6})$

Q6(i) $x = 3^{\frac{8}{5}}$

Q7(i) 40.5 s

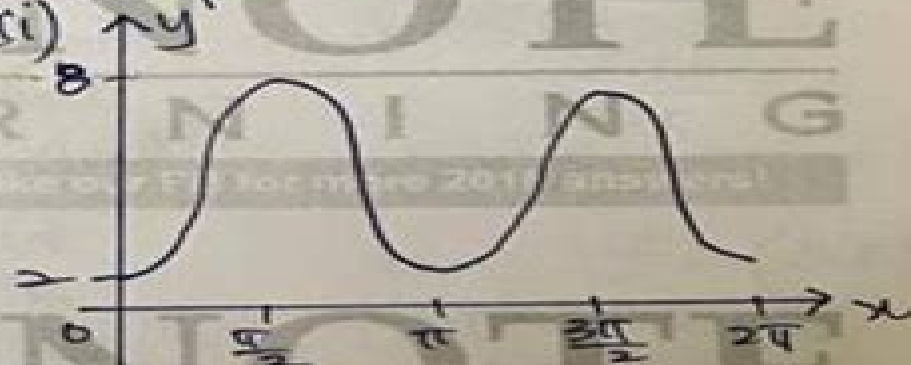
(ii) $\frac{2}{15}$ cm/s

Q8(i) $5 - 3\cos 2x$

(ii) period = π radians

Amp = 3

(iii)



Q9(i) $y = \frac{1}{2}x$

(ii) B(8, 4)

Q10(i) $r = \frac{20-3x}{2\pi}$

(iii) 4.15 m (3 sf)

(iv) min. pt

Q11(i) $5 + \frac{6}{2x-3}$

(ii) increasing

(iii) decreasing

(iv) $f(x) = 5x + 3\ln(2x-3) - 2$

Q12(i) 18

(ii) $a > \frac{3}{2}$, $b = 12$

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