

## 2018 O Level A Maths Paper 1

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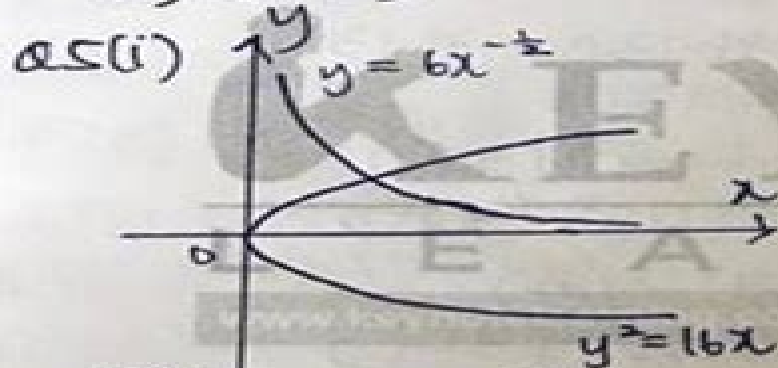
Q1.  $5^{-\frac{3}{2}}$

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

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

Q4a) a = -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

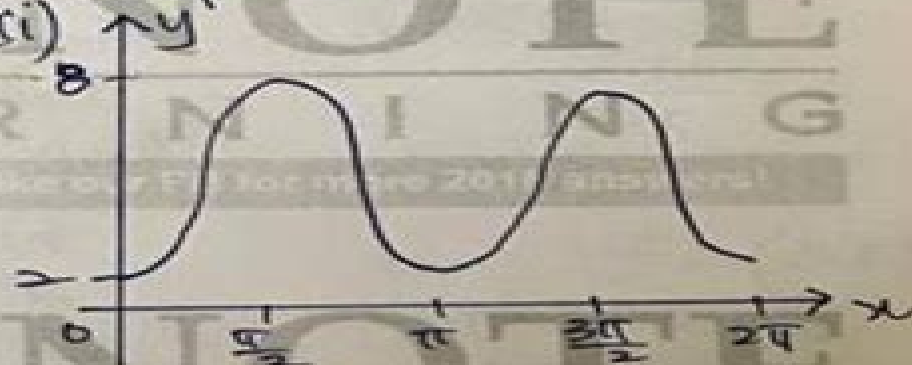
(ii)  $\frac{2}{15}$  cm/s

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

(ii) period =  $\pi$  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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**Thomas Bond, Chris Hughes**



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