TEACHERS WITHOUT BORDERS PROGRAMME

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basic education Department: Basic Education REPUBLIC OF SOUTH AFRICA

With grateful thanks to our associate partners, The <u>National Department of Basic Education</u>, The <u>Independent</u> <u>Examinations Board</u>, <u>Siyavula Education</u>, <u>Smarticks</u>, <u>Noteshare</u>, <u>Lemonlicious</u>, <u>datacentrix</u>, and most of all, to the schools and teachers from both the public and private education sectors who as founder contributors, have lent content to the <u>Teachers without Borders programme</u>, for the benefit of all South Africa's learners.

In Bill Gates words, at the Mandela Day 'Living Together' address: "Maintaining the quality of this country's higher education system while expanding access to more students will not be easy. But it's critical to South Africa's future" – working together, we can help achieve this."

Contributing schools to date:

Clifton School	Milnerton High	Rustenburg Girls' High	St Peter's
Durban Girls'	Northwood High	St Anne's DC	St Stithians
Fairmont High	Roedean	St John's DSG	Wynberg Boys' High
Herzlia High	Rondebosch Boys'	St Mary's DSG Kloof	Wynberg Secondary

2 Question 3 5 b) HCF = 52 = 25 VA Question 2 Section A Grade 8 $\frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}$ -9+5 14-5 ____, 1 -12 -2 -4-4 [80 Marks] Menno June 2019 ហហ 2 350 1 35 Marles Ŧ 3 3 P w Ŧ E 125 6 $x i) (a^4b^2 \times q a^4b^2) = 54a^8b^4 \cdot m$ 9) $\frac{14d^2}{7d} - \frac{7d}{7d}$ m spluting h) $\frac{12d^2}{10x^2} - \frac{7d}{7d}$ J) 503 × p846 16pq3 × p846 2 × A b)-4arm c) 3p²rm 0 D Questron 4 1 3 62 4 = a + 4ab - 2a va 3 (2 - y) - 2 (2 2 - y) - 3 2 c -4x-y-4x+2y-3x m Bodyna : m x exponents 9999 3 F 3 9 F Ð [74]

a) $\left(\frac{3}{2} - 2 \right)^2$ = $\frac{3}{2} + R$ Question 7 e 0 C a Question 5 Question 6. 5 5 11 atb vn ωt, axb = ab 11 11 (13) 01-01-25 3×(p-q) ~ 3(p-q) $q + 3(-1)^2 - 4(-1)^3 - 4(-1)$ m sub q + 3 + 4 + 4 + 4 (-1) m sub 300μ M - OVA NO SOLUTION -4x3+3x2-4x+9V 7 m sub E 9 3 E P w 5 5 4 [] 6 3 d 2 0 C Question 8 C 11 1 1 2 - C ~ M 4(x+3) = 5(6x-2) + 34x+12 = 30x - 10 + 3 m reamage- a - 26 4x-30x = -10-12+3 2 = -5×2 4x+9x=-5+21 m reamange SC = -10 $2x^{2}=32$ 2 = V16 |3x - 2k|x - 2k|3x - 13|-+++--26x = -19 2C=2~M $\frac{\alpha}{-26} = -\frac{19}{-26}$ x = 19 26 V 2 : W m distribution m.+ 3 G 6 5

Question 9. m(+) 3x+20+10-2x+4x+18+5(7-x) A signs = 30C+20 +10 -2x+4x+18+35 -5x = 83, VA [3] Question 10 VA x - 2 and x - 1[2] ,

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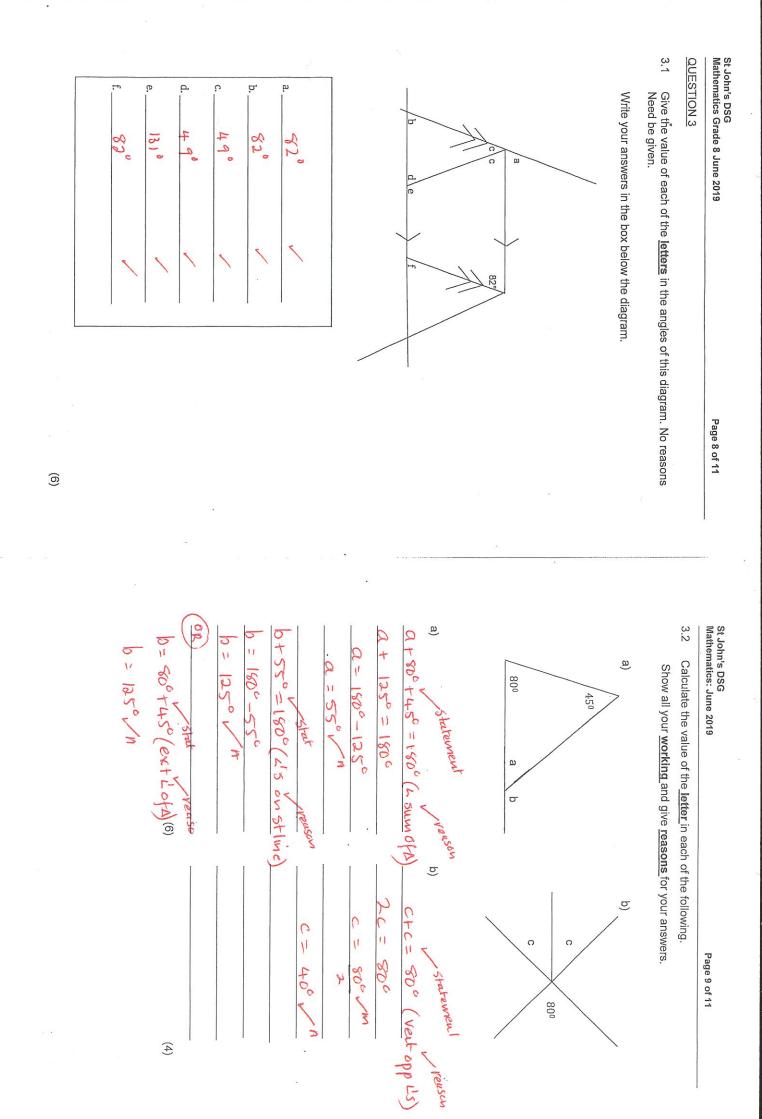
Contributing schools to date:

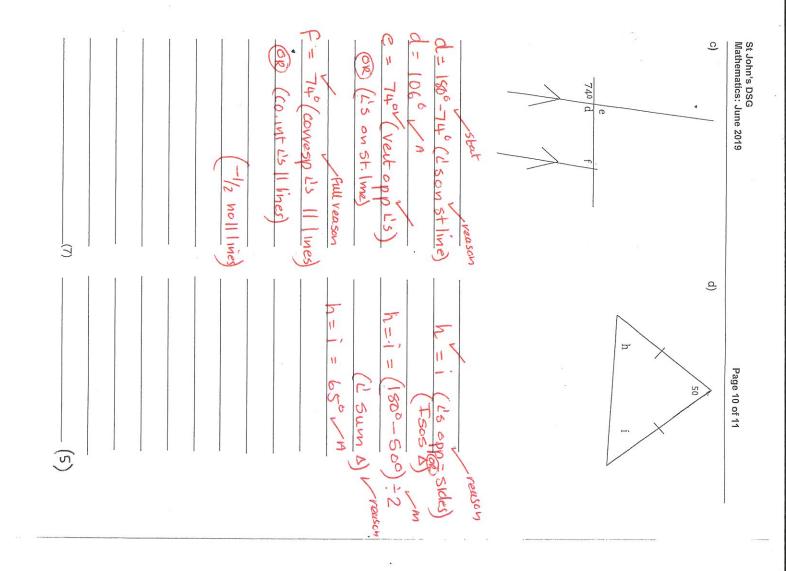
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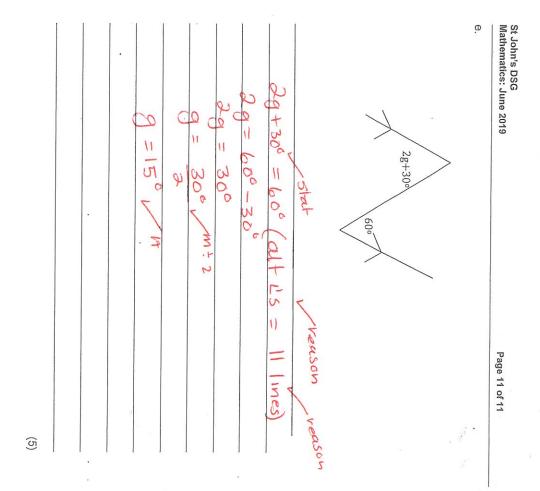
h. 90° is also known as a <u>Vigut</u> angle. [8]	g. The angle between the two hands of a clock at 12h 20 is 120° v degrees.	f. If an obtuse angle is halved, what type of angle is formed?	A triangle with three sides of equal lengths is called a(n)	d. The size of an angle of an equilateral triangle is 60° degrees.	The complement of 40° is		Fill in the missing word in each of following:	QUESTION 1	5. Show all your working out in the spaces provided.		2. Circle your teacher's name.	1. Write your Name and Grade at the top of the page in the space provided.	Instructions	NAME GRADE 8 GEBERS RUGBAR SCHWEGMANN	SECTION B – 45 Marks	St John's DSG Mathematics Grade 8 June 2019 Page 6 of 11
(1) (1)					•	(a) An acute angle		A protractor <u>does not</u> have to be used.	(a) an acute angle (b) a reflex angle.	2.1 Use a ruler and pencil to draw an example of:	Isosceles 5 Scalenes (2)			(a) (b)	<u>QUESTION 2</u> 2.1 Classify each triangle according to their sides.	St John's DSG Mathematics Grade 8 June 2019 Page 7 of 11

(2)

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