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Jan 12 OCR C2 4.2 × 12 = 50.4 0 = 10 = l+2r = P 74.4 cm 2  $\frac{1}{2}r^{2}\theta = \frac{1}{2}(12)^{2}(4.2) = 302.45 \text{ cm}^{2}$ A = X. y = log(2x+1) 30 log 9 4 2 9. 5.5 log 12 32 7 h = 10-4 log is 32 33 log 18 8.5 34 log 21 10 (log 9 + log 21) + 2 (log 12 + log 15 + log 18) 12 32 6.97 to 3 s.f. The tops of the trapezia are will. below the crestinate +  $C_{1}^{(L)}(ax) + C_{2}^{(L)}(ax)^{2}$ (4 + ax) 4 3: -(2 (4)3 (ax) 3 3 X 160 x 3 57 1280a 1/2 3 18 => ra 2 : + C, (4) 5 (x/2) 4 (4+×12 3: -• -4096 + 3072x

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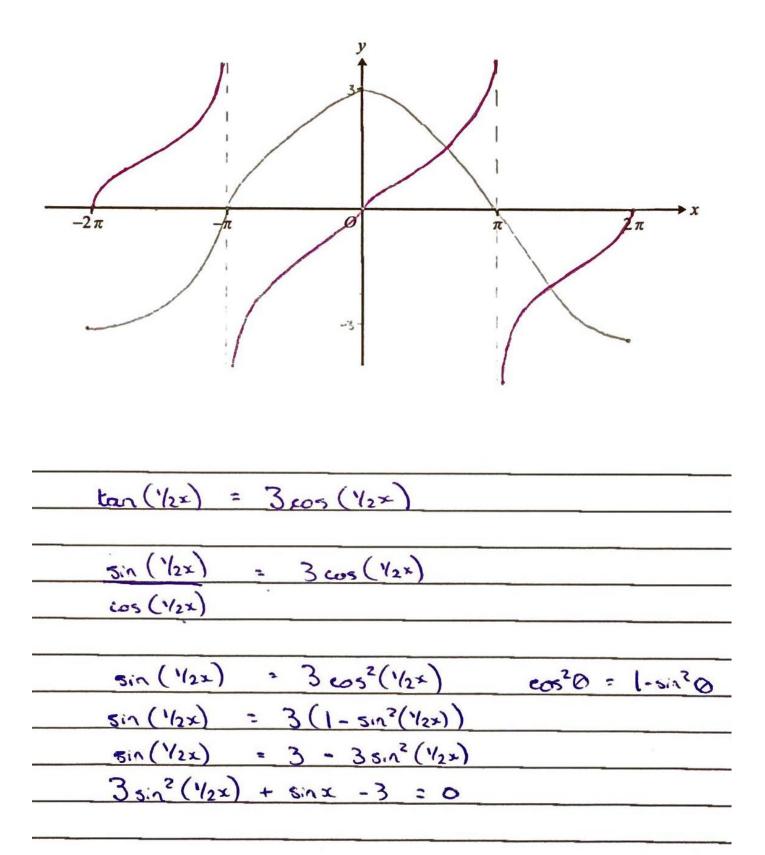
2 2 + 2.42 - 2(2)(2.4) cos 40° L: 3 3s.F. 6 = 1.55 km to sin 40 A 2 56 sin A -7 2 1.55 bearing . from A to C is 124 C hii l 2 2 sin90 51760 11 l = 1.29 km 35% 56 =) 40" 1 A B = 2x3 + 3x2 - 17x + 6 5 f(x) $F(3) = 2(3)^3 + 3(3)^2 - 17(3) + 6$ 36 =  $2x^{2} + 7x - 3$ 5: 223 x - 2 3x -17x + 6 - 4x2 2=3 1 7x2 - 17x 7x2 -14. . . -3x+6 - 3x + 6 • 0 • 1  $(x-2)(2x^2+7x-3)$ F(x)2 ÷ = (x-2)(2x2+7x -3) F(x)510  $7^2 - 4(2)(-3)$ one root > 73 2 hos dere 7370 =7 f(x)d.c.c. have 3 60

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• • 6:, Un: 85 - 5n • 85 - 5(1) 80 u 2 - 5(2) 75 85 : 41 85 - 5(3) 70 2 L2 \* 20 Σ Un (2a + (n-1)d 12 -611 2(80) + (19)(-5)  $\frac{1}{2}(20)$ 2 650 -6::: : 80 Us = 60 3/4 60 r . 80 85-5p = 45 Up : 8 . S. 6.0. . a 1-5 : 80 1-3/4 : 320 -

x  $-6x^{2} + 4x - 24$ 7a (x2+4)(x-6) dx dx 2 - 2x3 + 2x2 : 1 x - 2hx + C 6x 3/2 \$2 76 dx 12 × I 12 5 5 -2 -2 when 8: x: 2 4 2 I2 - 2 dx 8x - 8x 3 -2x (-8--10) 12 + shad 22 area : 2 : 5 5 7 6-3 8a. 184 -(w-3) ln 7 = la 184 en 184 3 + 2 en 7 5.68 to 3 s.f 3 0 log x + log y : log 3 86. log xy : log 3 : 3 =7 xu log (3x+y) 0 ۱ 2 10-3x 4 . 3x+4\_ 10 • =7 sub 2 in 0 x(10-3x) = 310x - 3x (3x-1)(x-3): 0 20 - 3 XI =7 4:1 3 12 X: =7 2 ٩

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3 522 (Y2x) + sin (1/2x) - 3 = 0  $-2\pi \leq x \leq 2\pi$ 5 Y2x 5 TT - 11 -1 + N12-4(3)(-3) sin (1/2x) 2 6 537 + -1 6 s.n (1/2x -1-537 ¥ P. unpossible 6 s.n(1/2x) : 1+ 577 1/2 x : 1.010555 =7 6 A 5 A. . --.. T C 1/2× = 1.0106 2.1310 4.26 2.02 × :