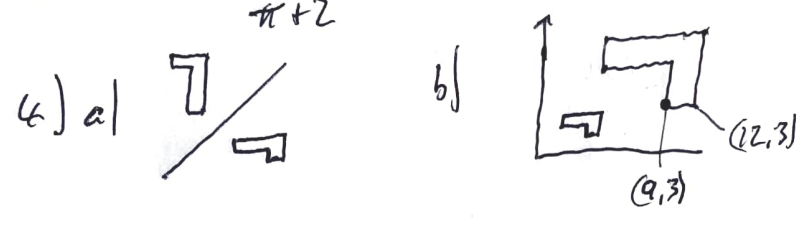
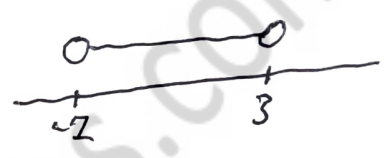


St Edwards 2015 16+

- 1) a) $2x + 3$ b) $y(y+1)$ c) $(2x+1)(3x-2)$
- 2) a) a^7 b) $15x^3y^4$ c) $(a-3b)(a+3b)$ d) $(x+p)(x+q)$

3) $r = \frac{p-2a}{\pi+2}$



- 5) a) $-2, -1, 0, 1, 2$ b) $x < 15$ d) 
- e) $-3 < x \leq 4$

- 6) a) $\pounds 5.40$ b) ~~$\pounds 1050$~~ $\pounds 405$

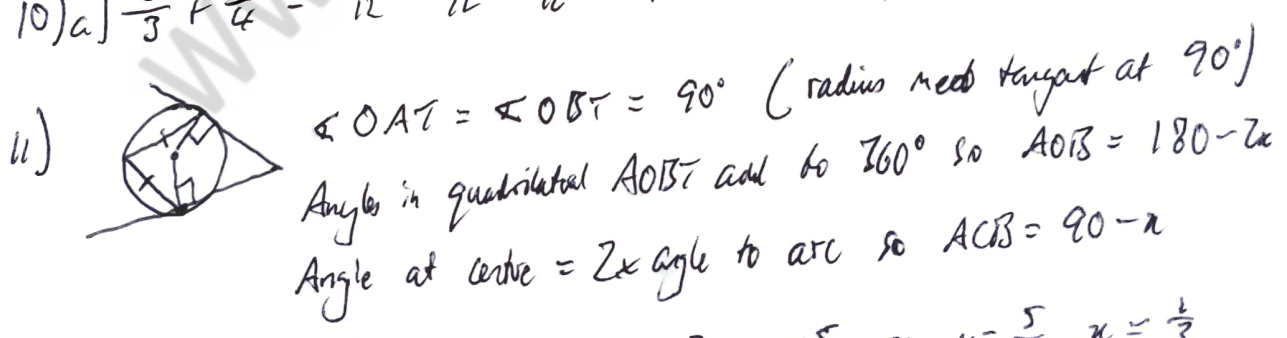
- 7) a) 12cm b) 50cm^2

- 8) a) $-\frac{1}{2}$ b) $y = -\frac{1}{2}x + 5$

9) a) c) $(27)^{-\frac{2}{3}} = ((27)^{\frac{2}{3}})^{-1} = 3((27)^{\frac{1}{3}})^{-1} = (3)^{-1} = 9^{-1} = \frac{1}{9}$

10) b) $a = -3, b = 4$ c) $\frac{x+10}{(x+3)(x-4)}$

10) a) $\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ b) $\frac{2}{5} = \frac{3}{10} = \frac{2}{5} \times \frac{10}{3} = \frac{4}{3} = 1\frac{1}{3}$



12) $4y^2 - (2-y)^2 = 11$ $y = -3, x = 5$ or $y = \frac{5}{3}, x = \frac{1}{3}$
 $3y^2 + 4y - 15 = 0$
 $(3y - 5)(y + 3) = 0$ 13) 119m^2

$$14) \left(x \neq -\frac{5}{4}\right)$$

$$5x(4x^2 + 4x + 1) = 20x^2 + 2(x - 5)$$

$$20x^2 + 20x + 5 = 20x^2 + 2(x - 5)$$

$$10 = x$$

$$15) \text{ For class } \dots \quad \underline{800}$$

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