

Q2 Review sheet 3

11

I. True

IV. True

II. False

V. True

III. True

VI. False

12 Supplementary : (4)

12 (4)

12 Supplementary : Yes, they both have the solution  
(1.545, 0.818)

12 Supplementary :

No solution (-1.714, -0.286)

13 (1)

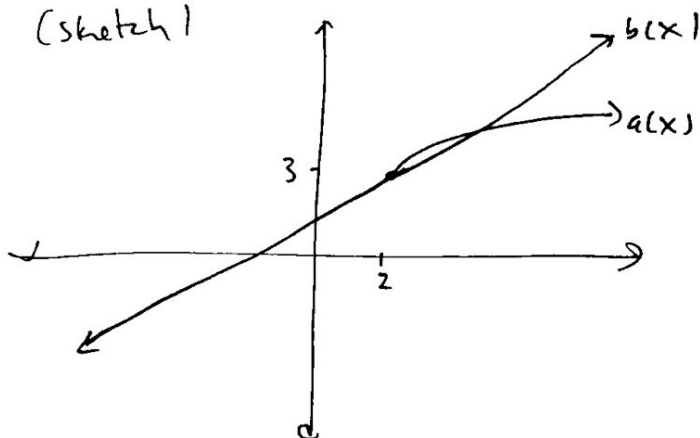
13 Supplementary : (1)

14 (1)

## Q2 Review sheet 3

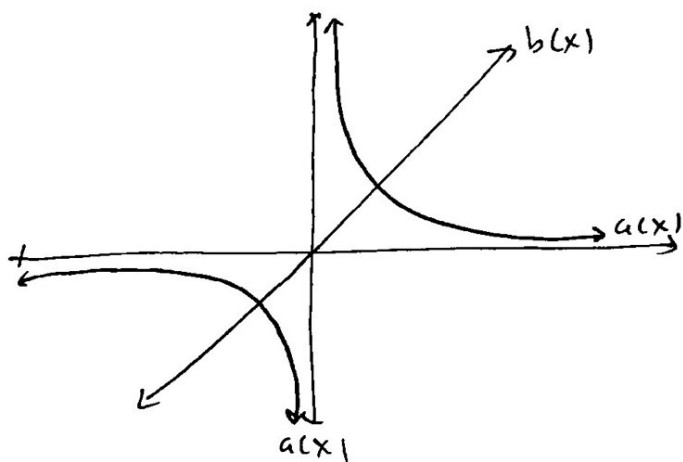
4) Supplementary: 0.805

5) (sketch)



$x = 2$  and  $x = 6$   
because it's where the  
graphs intersect.

5) Supplementary: (sketch)



$x = 1$  and  $x = -1$ ,  
where the  
graphs intersect

## Q2 Review Sheet 3

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$f(x)$

Domain:  $-\infty < x < \infty$

Range:  $-3 \leq y < \infty$

$g(x)$

Domain: 0, 9

Range: 8, 5, 11

$h(x)$

Domain:  $-4 \leq x \leq 8$

Range:  $-4 \leq y \leq 5$

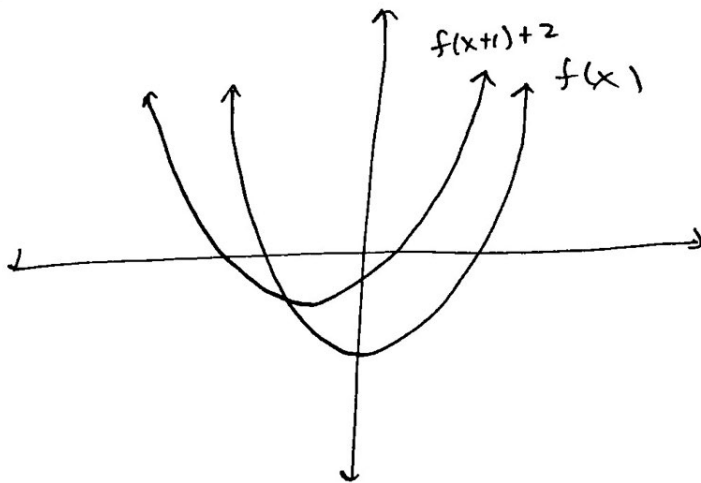
16) Supplementary: (2)

16) Supplementary: (4)

17) (4)

17) Supplementary: 5 zeroes. It's wherever the graph crosses the  $x$ -axis.

17) Supplementary: (sketch)



$f(x+1)+2$   
 $\uparrow$        $\uparrow$   
 left 1    up 2

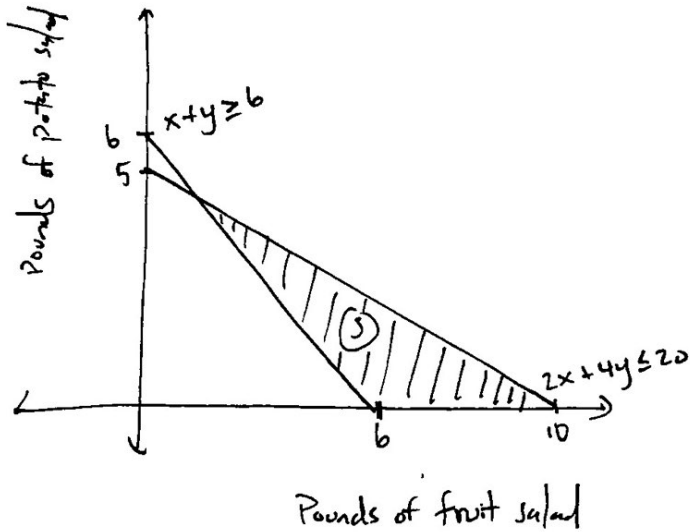
## Q2 Review sheet 3

18

$$2x + 4y \leq 20$$

$$x + y \geq 6$$

(sketch)



Possible combinations:

Any points within (S)

(2) Supplementary:

$$y \leq 10 - \frac{5}{2}x$$

$$y \leq 10 + \frac{3}{2}x$$

$$y \geq 2 + \frac{1}{6}x$$