Feedback from Methods Test 2

1.   a)   several used $\geq$ instead of $\neq$

b)   most got domain but were confused with range. Plug in a variety of values for x to see a trend. Ie $x=-100,-10,0,10,100$. You should see that the fraction will approach zero from the positive   side with the positive and negative values of x and the maximum it can be is when $x=0$ which is $\dfrac{1}{2}$

2.   a)   many used $-6x$ not $+6x$ when expanding the bracket

b)   again using a negative not a positive when expanding bracket

Not multiplying every term by 14, many left the 1 as 1 and only multiplied the fractions.

3.   a)   (i)   many found $\dfrac{f(1)}{3}$ instead of $3f(1)$

(ii)   not using a bracket around the $g(2)$ when subtracting

b)   many solved for t not x

many solved for $f(17)$ not $f(t)=17$

c)   many didn't recognise that if integers are the domain, there will be a fixed number of values in the   range.

Many included -2 and 3 in the domain instead of using $x=-1,0,1,2$ only to get the range.

d)   several students tried to complete the square to get the TP rather than use $\dfrac{-b}{2a}$ to get the LoS and   subs this in to get y.

Forgetting to state that it was a max

Not showing correct y int

Not extending parabola through the plane

4.   a)   many forgetting to solver for a in $y=ax^2+bx+c$

b)   many didn't use the factorised form to write equation

5.   mostly well done. Some students confused C as $-3x+y=5$ not $3x+y=5$

6.   a)   well done

b)   well done

c)   not rearranging the table so that x values increase by 1. This question was straight out of the text   book.

7.   spent too much time on these questions and used x and y rather than P and t

8.   spent too long on small questions and didn't use e-activities or solve on classpad

9.   didn't solve on classpad

10.   (minus 1 per error) many not recognising what makes a function

11.   didn't answer the question and didn't find the gradient. Or many said gradient was $x=¿$ or $y=¿$ not $m=¿$

12.   ran out of time. This question should have been completed first as it is straight off Classpad.