Feedback from Methods Test 2

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

 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 $\frac{1}{2}$

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 $\frac{f\left(1\right)}{3}$ 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 $f\left(t\right)=17$

 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 $-\frac{b}{2a}$ 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.