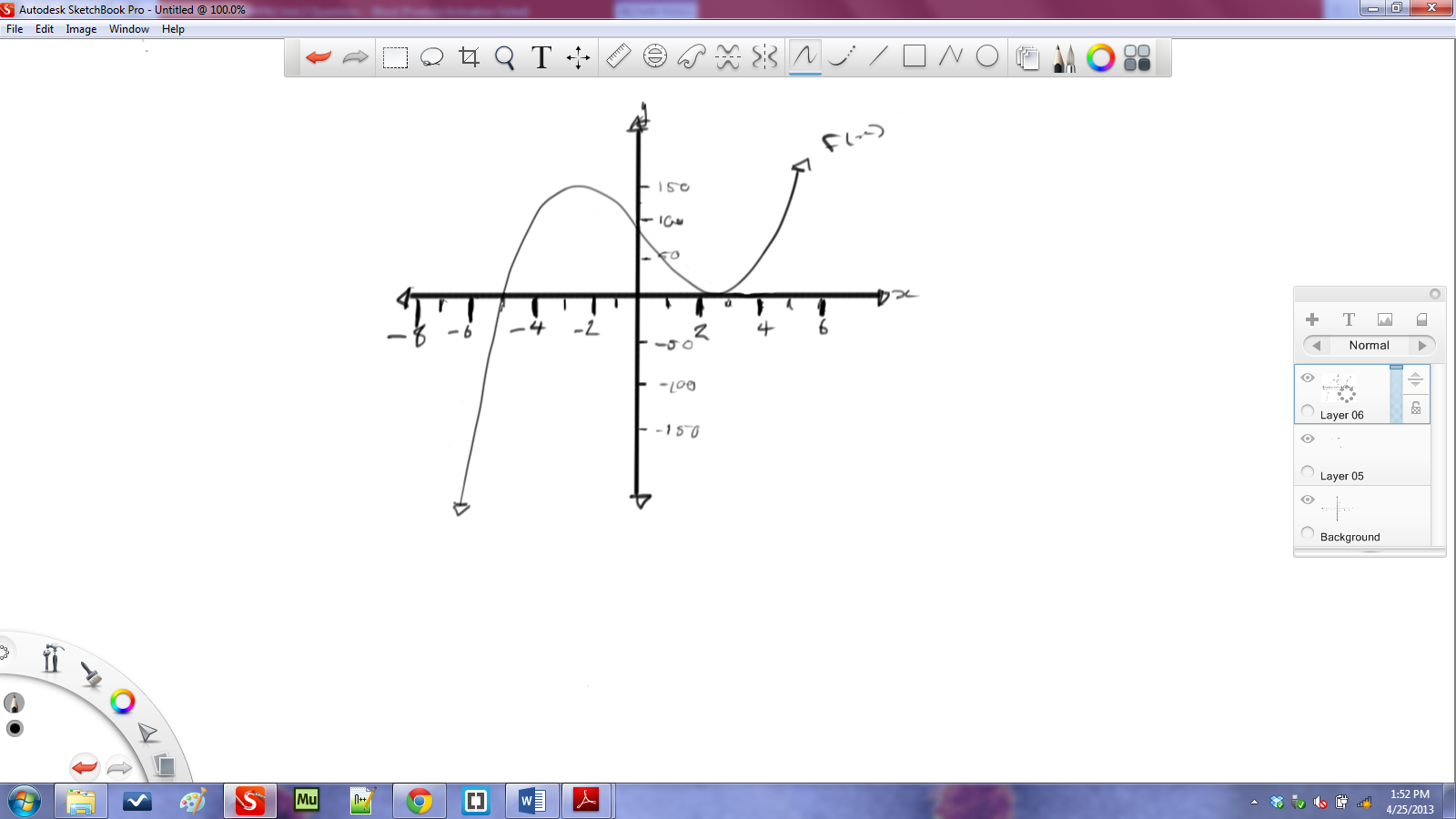
31.  
The dominant term of this polynomial is 8x6.

32.

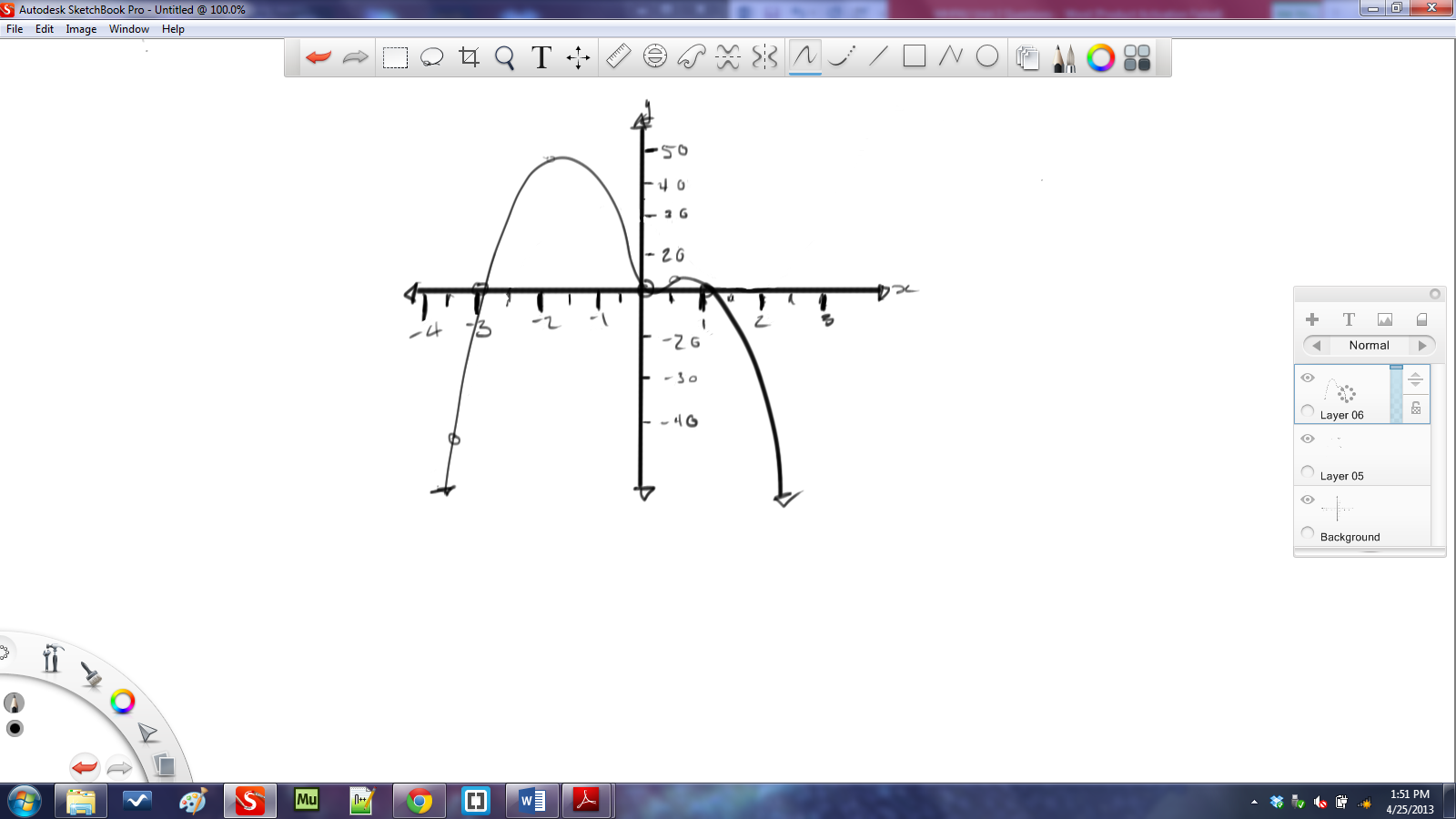
33. (a) with (ii).  
 (b) with (iii).  
 (c) with (i).

34.

35. a)



b)

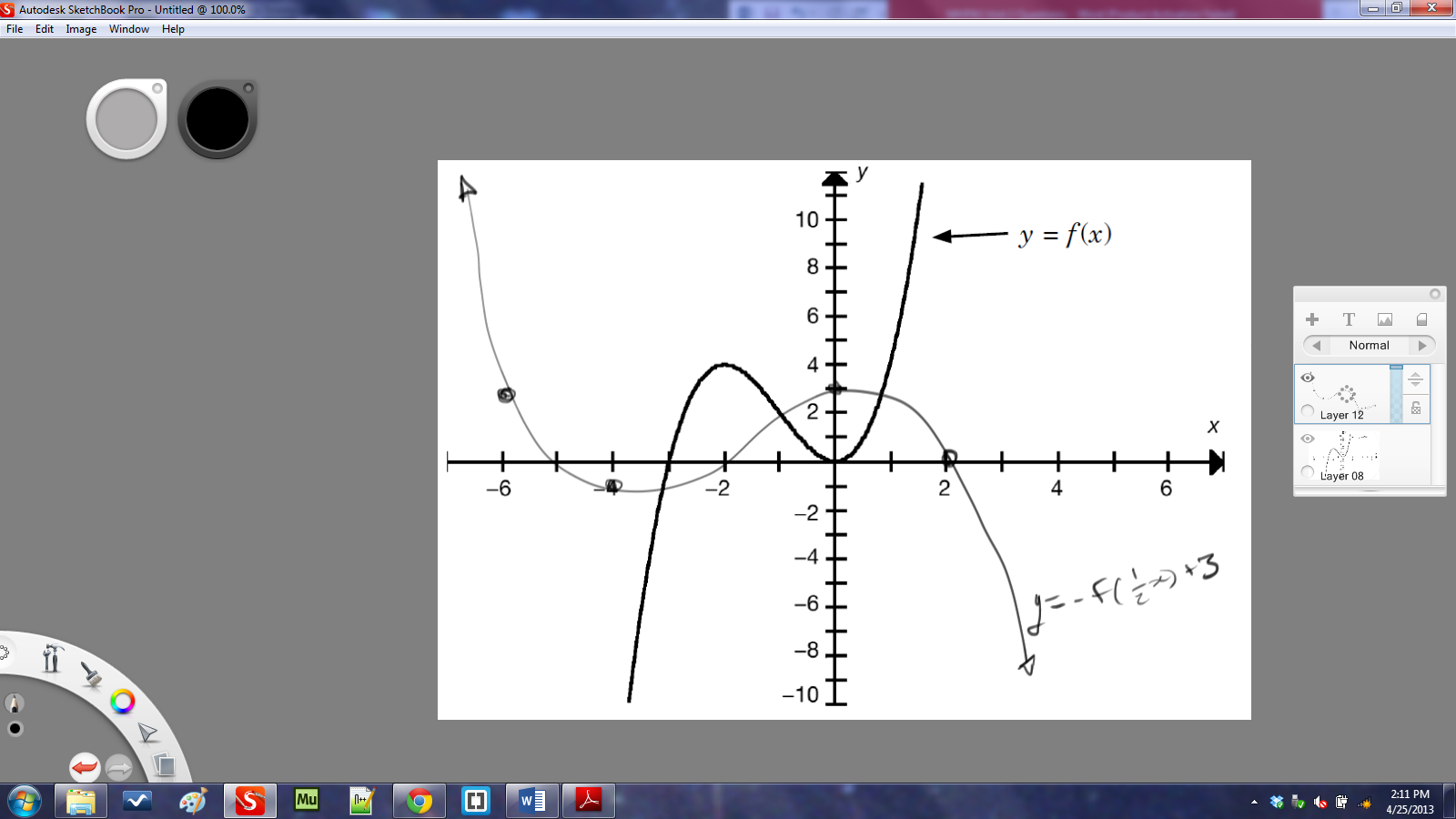


36.

37. a) Horizontal translation of 2 left  
 Reflection in the *x*-axis  
 Vertical translation of 5 down

b) Reflection in the *y*-axis  
 Vertical translation of 5 up

38.



39. a) Neither  
 b) Even  
 c) Odd

40.

41. (a) and (b):

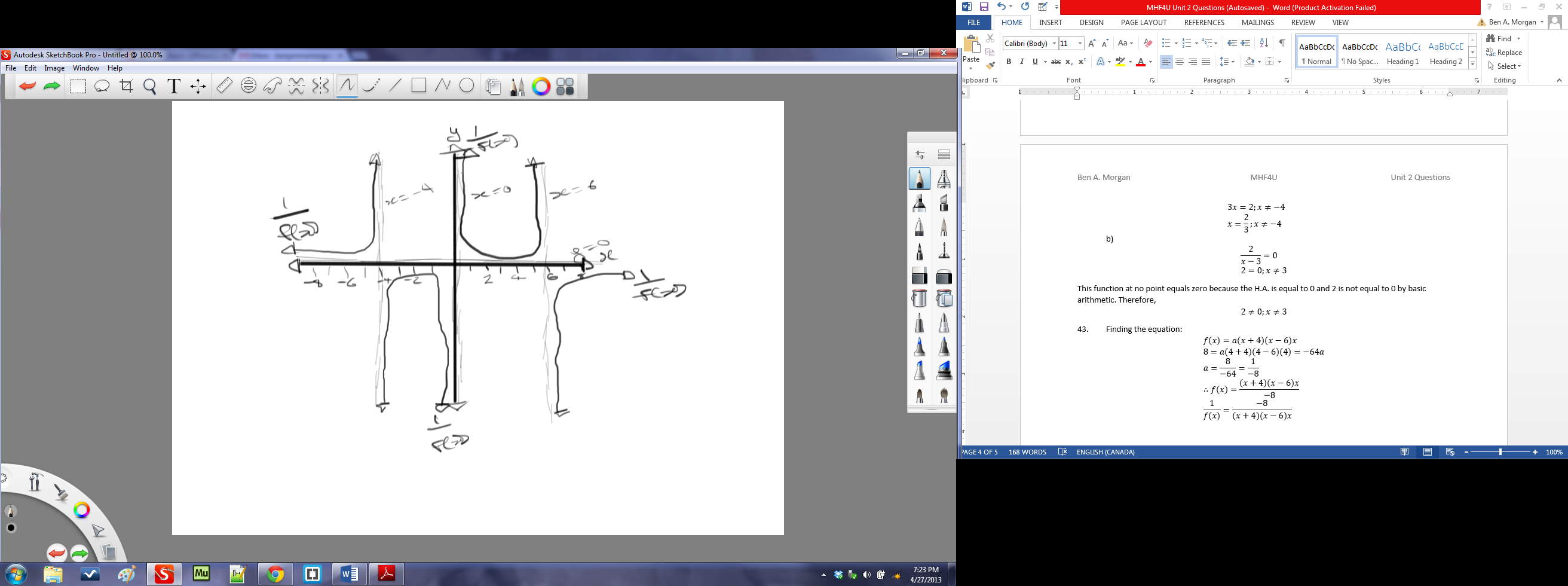
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Equation | V.A. | H.A. | *x*-intercepts | *y*-intercepts |
|  |  |  |  |  |
|  | none |  | None |  |

42. a)  
 b)

This function at no point equals zero because the H.A. is equal to 0 and 2 is not equal to 0 by basic arithmetic. Therefore,

43. Finding the equation:

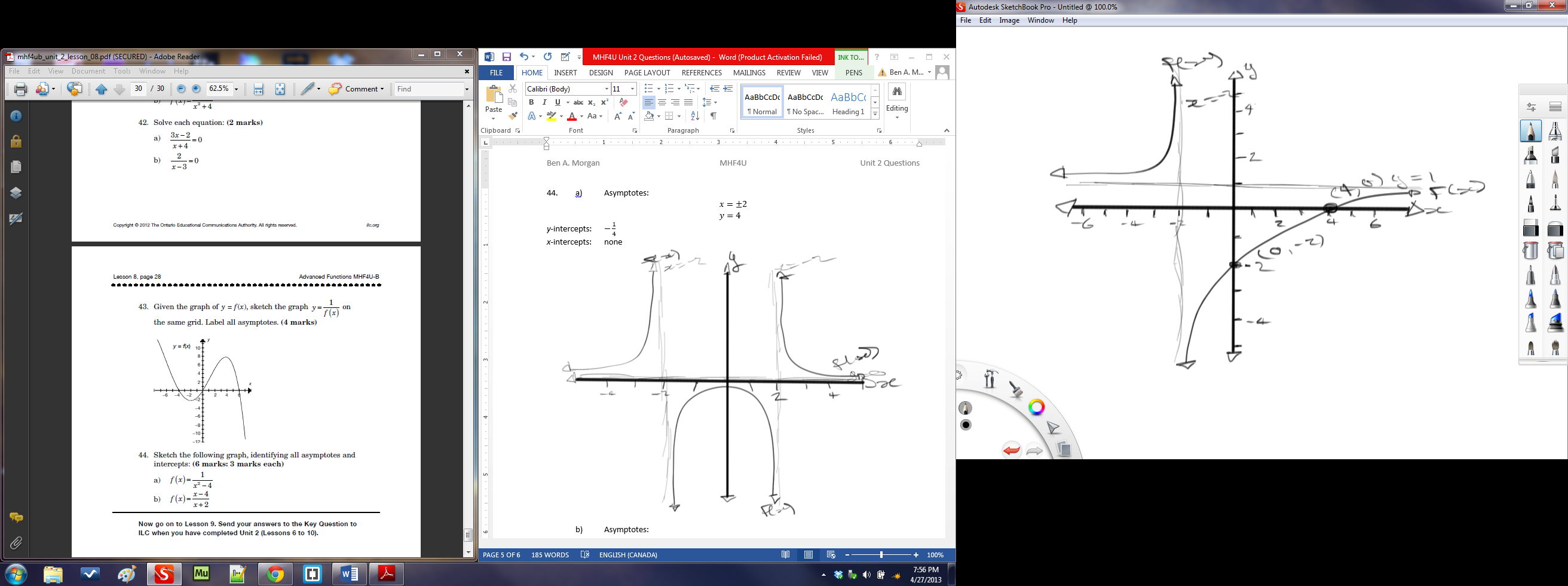
Asymptotes are:



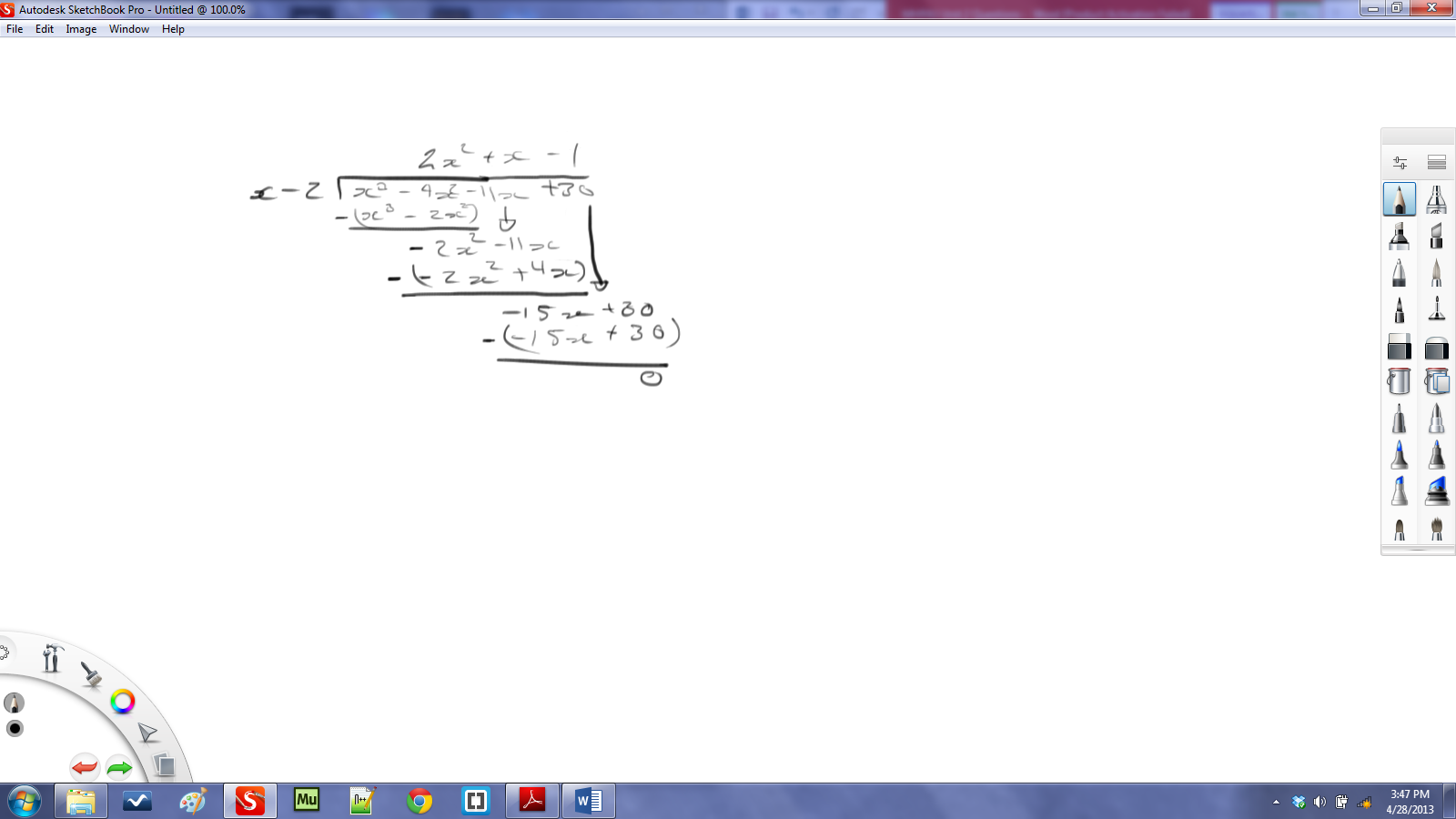
44. a) Asymptotes:  
*y*-intercepts:   
*x*-intercepts: none



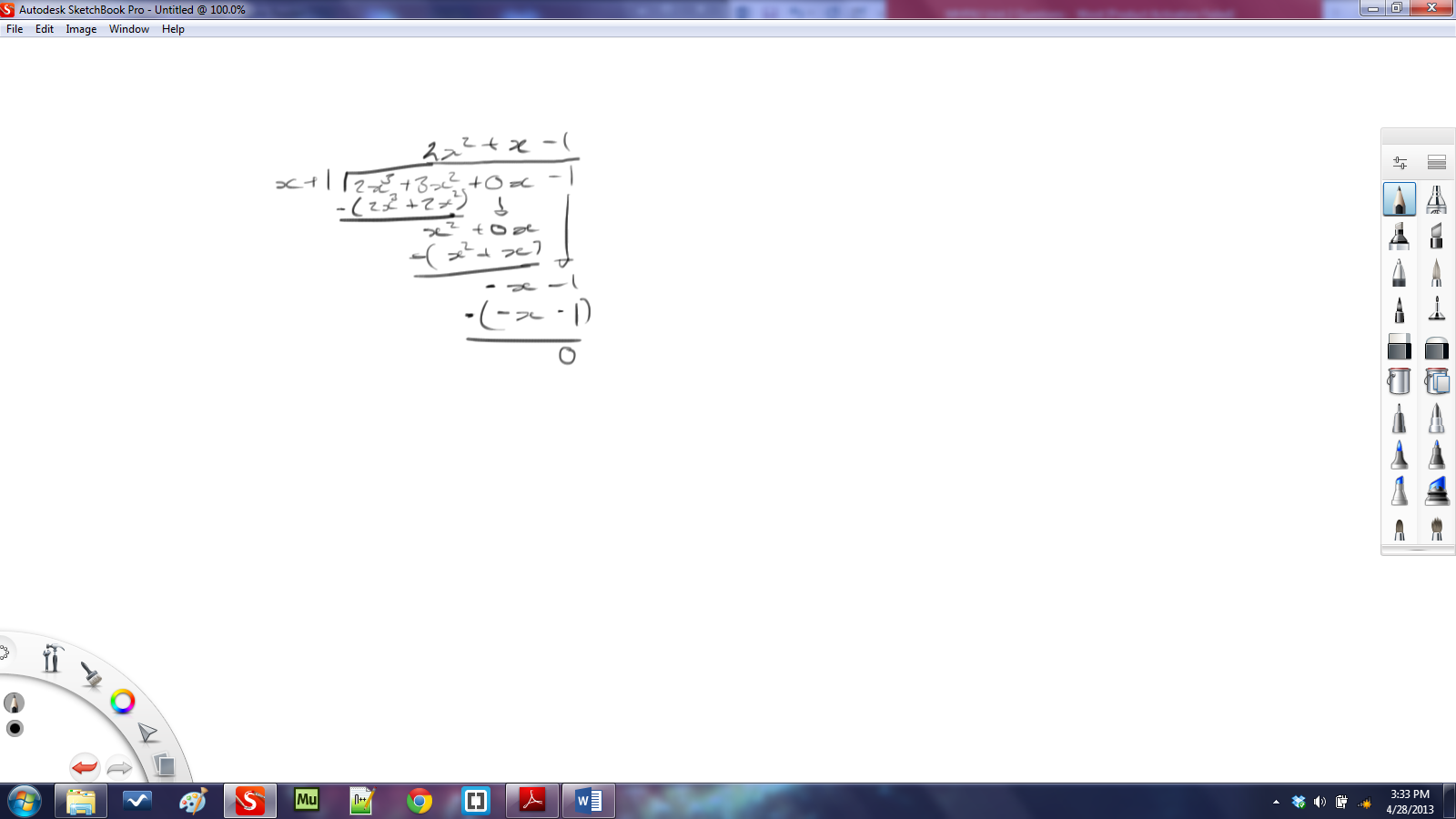
b) Asymptotes:  
*y*-intercepts:   
*x*-intercepts:



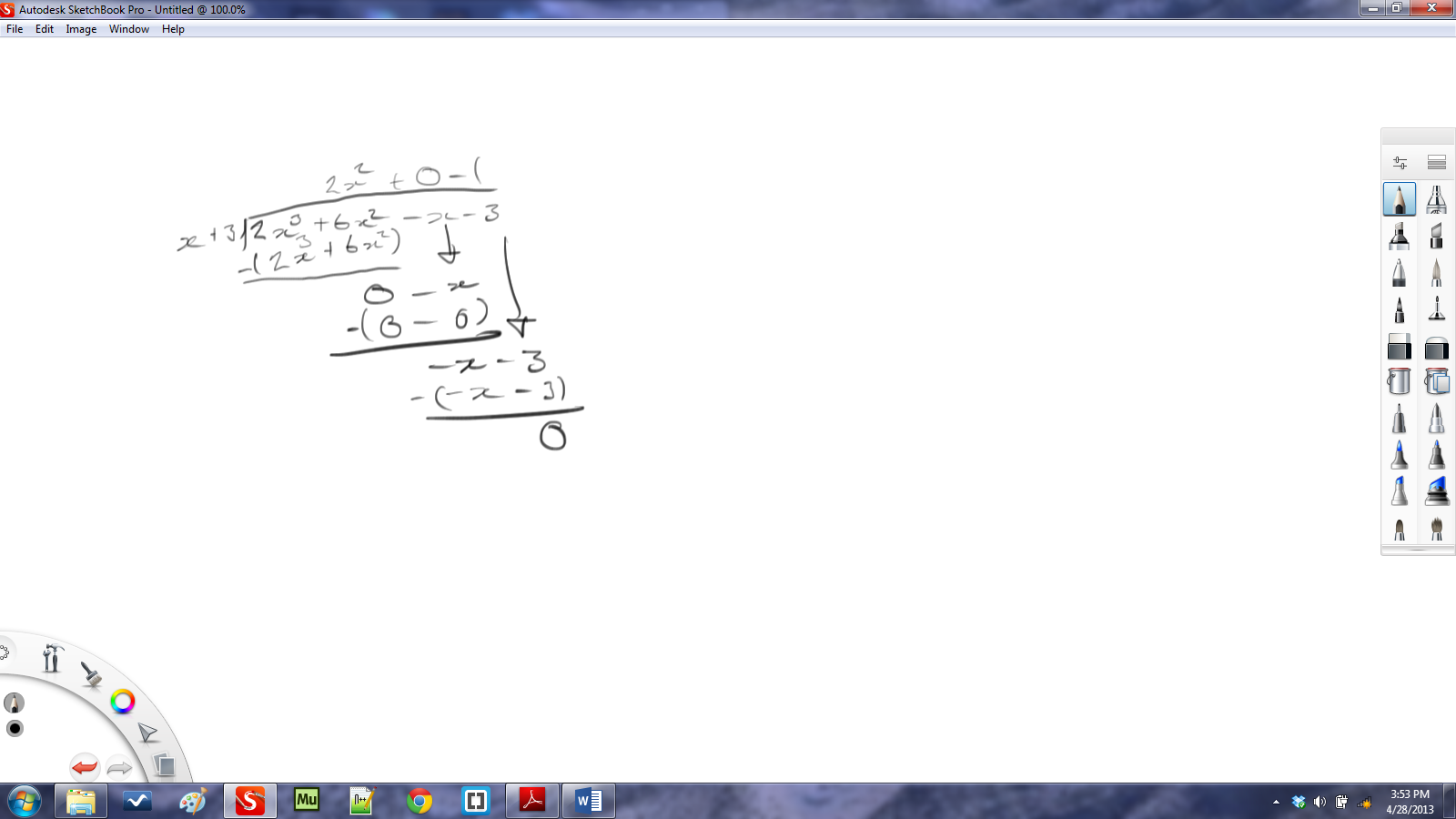
45. a)

2 >oes thince at no point doe

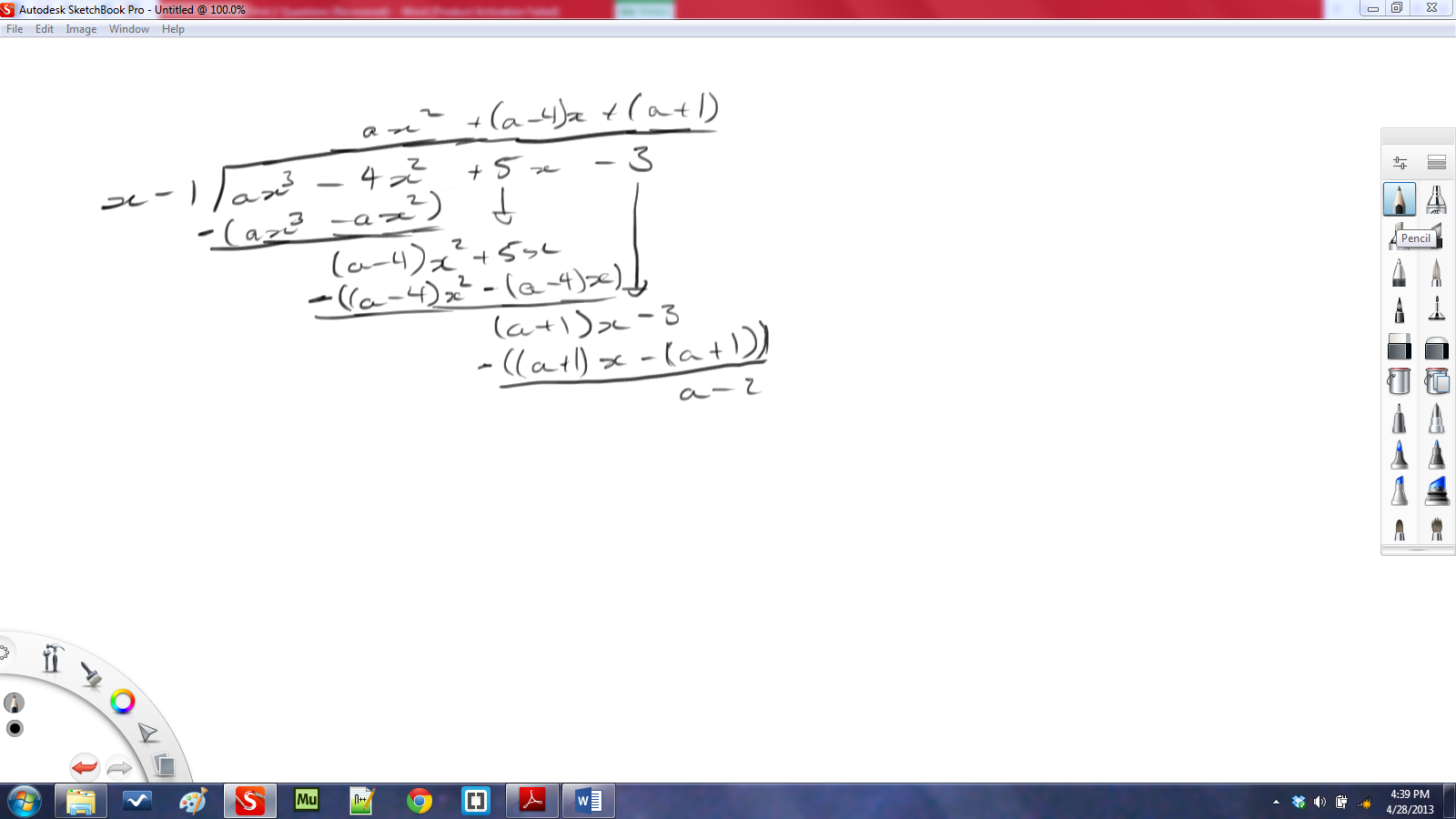
b)



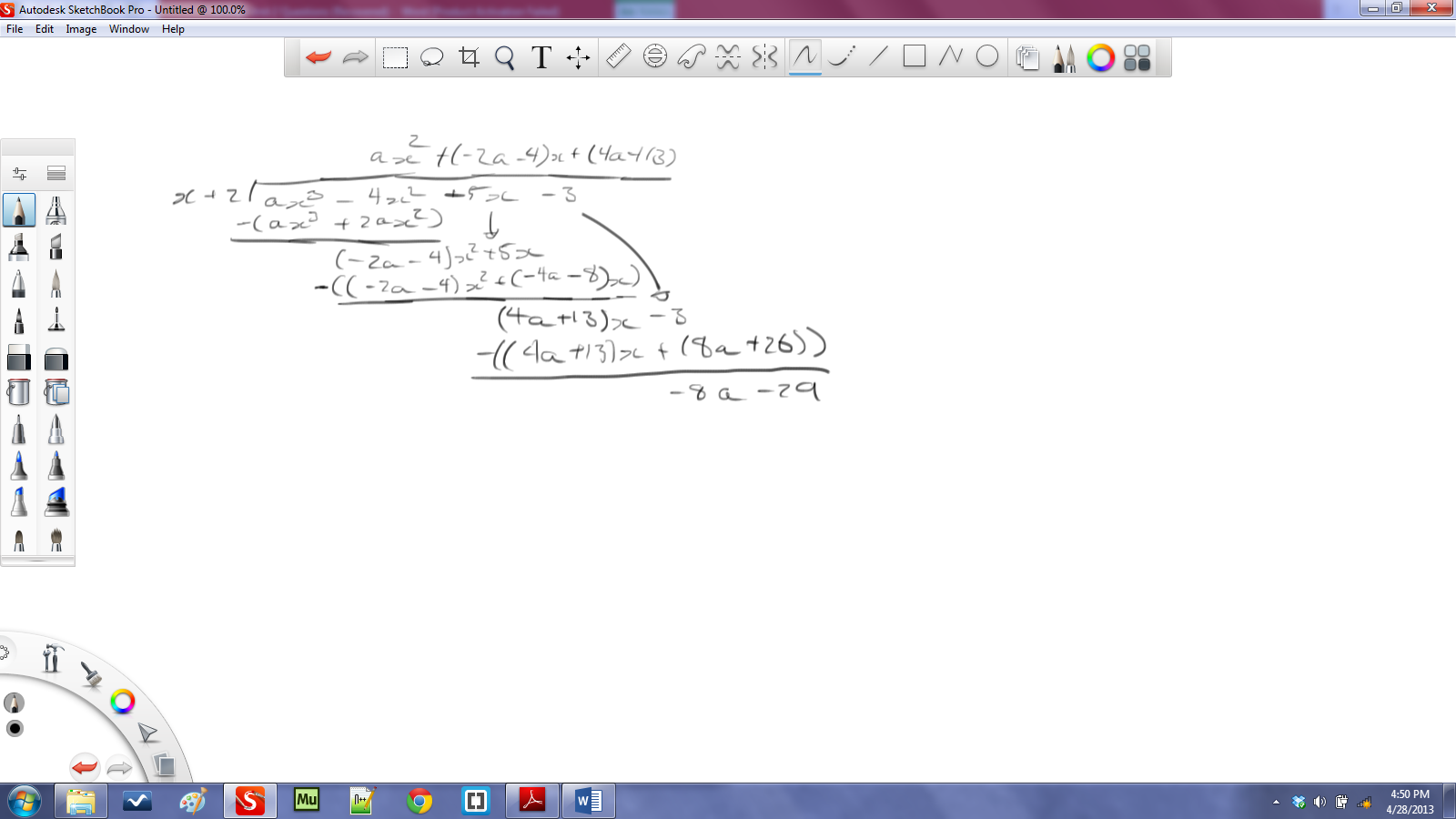
46.

  
=+6−

47. a)  
 b) For :

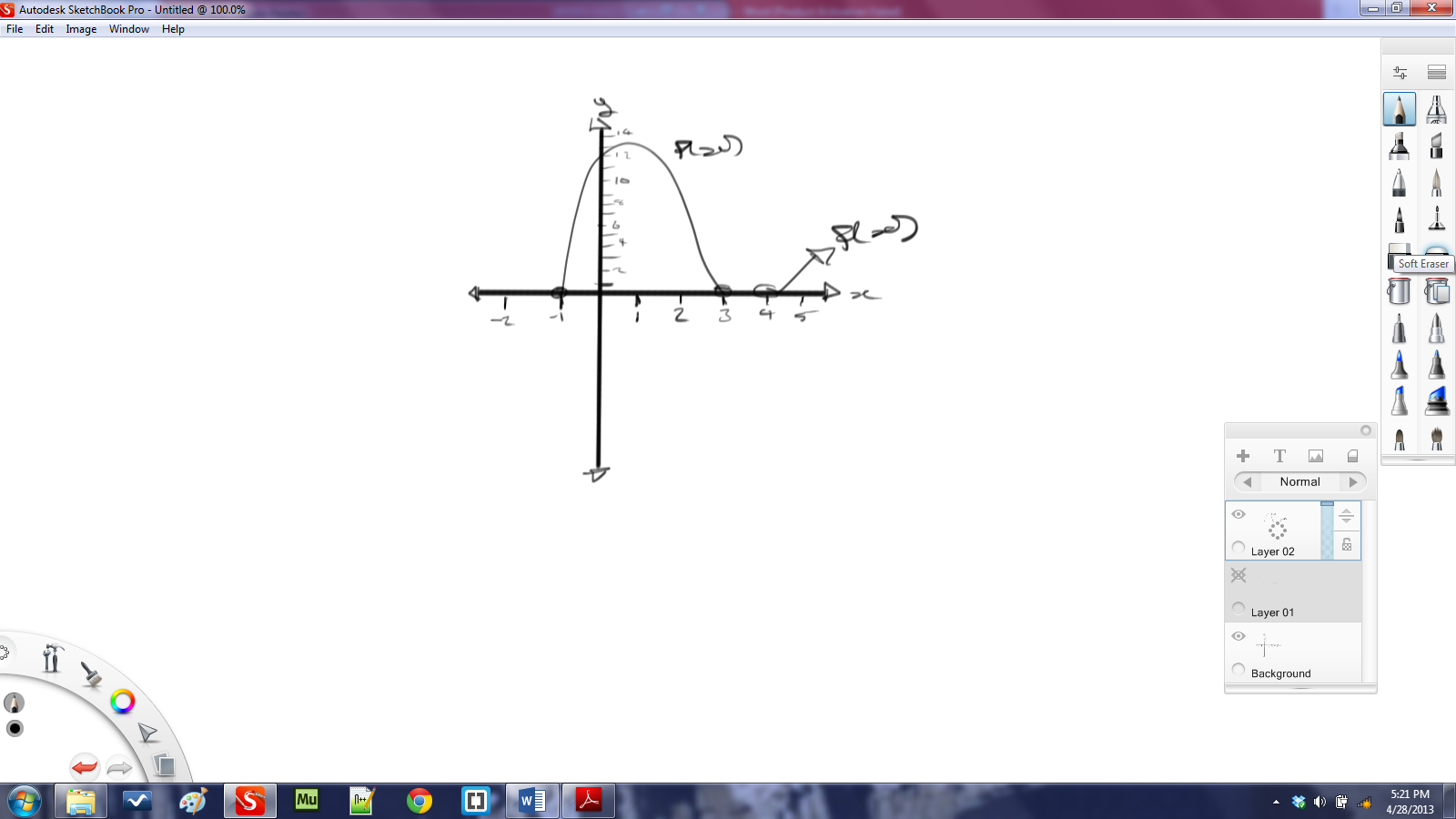


For :

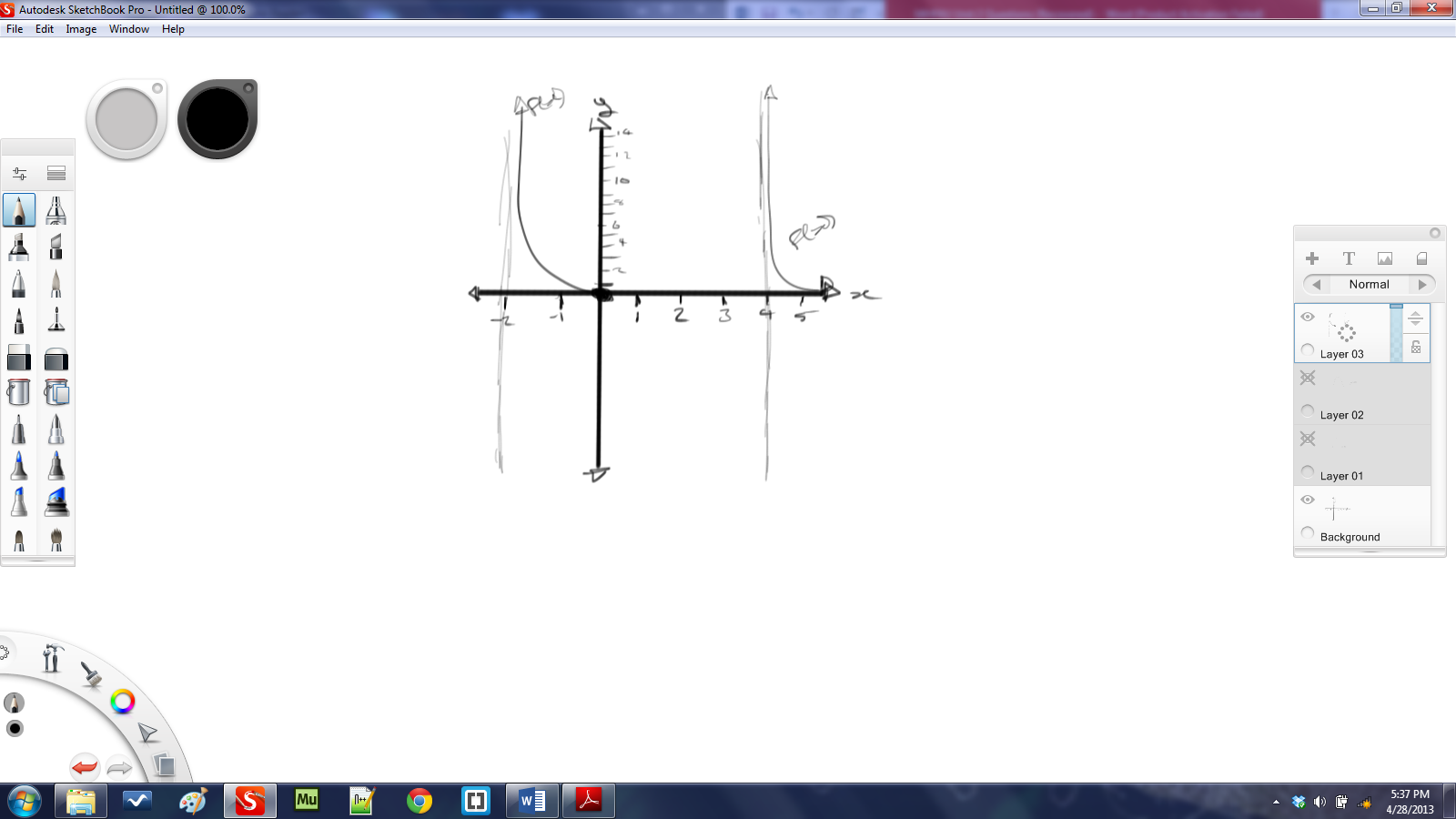


From the Remainder:

48. a)



b)



49. a)  
There is no solution since at no point was the function below or equal to zero.  
 b)