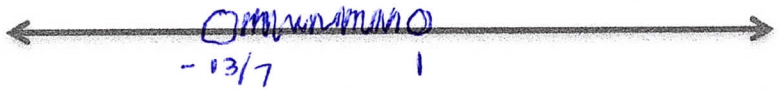
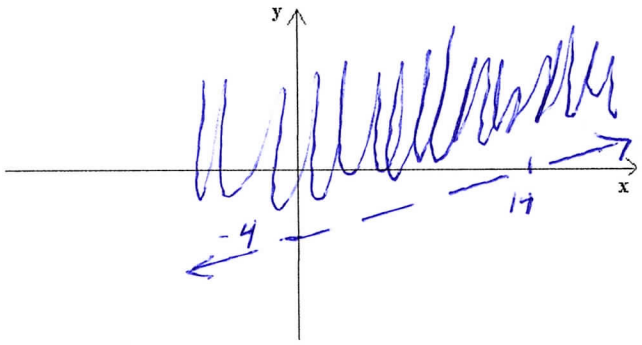
Fall 2013 Math 026 Form B Final Exam Answers

1. a) $(5x-3)(3x+1)$ b) $(x-3)(x+1)(x-1)$
2. $x^2-2x+10\ R-28$
3. $-\frac{13}{7}<x<1$ 

4. 14
5. a) 2 b) x^2-6 c) $4x-8$ d) x^2+4x-7
6. a) $x=-2$ b) $y=-\frac{3}{8}x+\frac{45}{8}$
7. a) $2\sqrt{61}$ b) (-4, -1)
8. 

9. a) -1 b) 2 c) 4 d) False 10. $x=-2, y=\frac{11}{6}$

11. $\frac{1}{2(x+y)}$ 12. $\frac{-2x+14}{(x-3)(x-2)(x+1)}$ 13. $\frac{x+3}{x}$

14. $2\pm 2i\sqrt{2}$ 15. \$800 16. $a=\frac{7}{9}$

17. a) $4x^3y^2\sqrt[3]{2y^2}$ b) x+9

18. a) $3+\sqrt{2}$ b) $\frac{\sqrt[4]{x}}{x}$

19. 9 hours 20. $x=\frac{2y}{y-3}$ 21. Center (0,-2) Radius $\sqrt{11}$

22. \$3 23. (-2,8) 24. $x=6$ 25. $G(x)=\frac{10}{7}x+\frac{330}{7}$