Let me know in class if you have found an error!

1. $y = -2x + 1$

2. $y = \dfrac{b}{a}x$

3. $y = 2x - 1$

4. (a) $x = \dfrac{3}{7}$

   (b) $x = -2$ and $x = 1$

   (c) $x = 0$ and $x = 1$

   (d) $x = 0$ and $x = 1$

   (e) none

   (f) $x = 2$, $x = -2$, and $x = 0$

   (g) $x = 0$ and $x = -3$

   (h) none

   (i) $x = \sqrt{\frac{1}{3}}$

5. $f(0) = -3$, $f(-3) = -9$, $f(x + h) = 2(x + h) - 3$

6. $f(0) = 2$, $f(-3) = 8$, $f(x + h) = (x + h)^2 + (x + h) + 2$

7. $f(0) = -\frac{1}{9}$, f is not defined at $x = -3$, $f(x + h) = \dfrac{1}{(x + h)^2 - 9}$

8. $f(0) = -2$, $f(-3) = -30$, $f(-4) = -67$