

- 49 (a) Graph $Y_1 = 36.5X$ and $Y_2 = 1000$. Their graphs intersect near the point $(27.4, 1000)$ as shown in *Figure 49*. An individual should not ingest 1 gram of lead in less than 27.4 years.

$[0, 40, 10]$ by $[0, 1500, 100]$

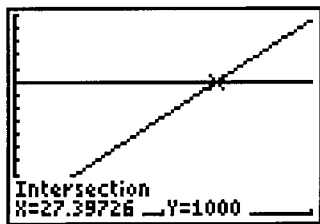


Figure 49

- (b) We must solve the equation $f(x) = 36.5x = 1000$ for x . Thus, $x = \frac{1000}{36.5} \approx 27.4$ years.