Name

Alg I.

4.7

Predict with Linear Models

I can find the zero of a function.

Ch. 4 Quiz

*Complete Skills practice pg. 279, # 7-12

Zero of a function: an x-value for which $f(x)=0$, also the x-intercept.

Example: $f(x)=2x-4$ $\quad f(x)=0$

$0=2x-4$

$+4 \quad +4$

$\frac{4}{2}=\frac{2x}{2}$

$x=2$

The zero of $f(x)=2x-4$ is 2.

Example 4: $y=-1.23x+14$

$0=-1.23x+14$

$-14 \quad -14$

$\frac{-14}{-1.23}=\frac{-1.23x}{-1.23}$

$x=11.4$

* The function has a negative slope. The number of jet boats is decreasing. There will be no jet boats purchased 11.4 years after 1995, or in 2006.