

Unit 0 HW #4

- Use any method to find the point of intersection of $f(x) = 3x - 5$ and $g(x) = -4x + 9$. [Help](#)
- Compute for $f(x) = \frac{1}{x}$ [Help](#)
 - $f(12)$
 - $f(110)$
 - $f(0.01)$
 - $f(0.007)$
- Solve each of the following quadratic equations. If you need help, refer to the Math Notes box for this lesson. [Help](#)
 - $x^2 - 8x + 15 = 0$
 - $2x^2 - 5x - 6 = 0$
- Consider the points $(-5, 0)$ and $(0, 3)$. [Help](#)
 - Draw x- and y-axes. Then, plot the points on your graph and find the distance between them. Give your answer both in simplest radical form and as a decimal approximation.
 - Find the slope of the line that passes through both points.
- Find the error in the solution at right. Identify the error and solve the equation correctly. [Help](#)
 - $3.9x - 2.1 = 11.2x + 51.7$
 $\frac{1}{5}x - 2 = \frac{13}{25} - 0.7x$

$$\begin{aligned}4.1x &= 9.5x + 23.7 \\ -4.1x &= -4.1x \\ 5.4x &= 23.7 \\ \frac{5.4x}{5.4} &= \frac{23.7}{5.4} \\ x &= 4.39\end{aligned}$$