Petunia's Pickle Problem Notes

Ex: $3.2x - 5.8x + 6 - 10.1 + x = -4.6 + 0.4x + 9 + 3x$

$-2.6x - 4.1 + 1x = 3.4x + 4.4$

$-1.6x - 4.1 = 3.4x + 4.4$

$+1.6x \qquad +1.6x$

$-4.1 = 5x + 4.4$

$-4.4 \qquad -4.4$

$\frac{-8.5}{5} = \frac{5x}{5}$

$-1.7 = x$

$\boxed{x = -1.7}$

Ex: $\frac{1}{5}x + 13 + 1x = -9x + 23$

$1\frac{1}{5}x + 13 = -9x + 23$

$+9x \qquad +9x$

$10\frac{1}{5}x + 13 = 23$

$-13 \qquad -13$

$\frac{10\frac{1}{5}x}{10\frac{1}{5}} = \frac{10}{10\frac{1}{5}}$

$\boxed{x = \frac{50}{51}}$

$\frac{10}{10\frac{1}{5}}$ ← ÷

$10 \div 10\frac{1}{5}$

$\frac{10}{1} \div \frac{51}{5}$

$\frac{10}{1} \times \frac{5}{51}$

$\frac{50}{51}$

Ex: $\overline{QS}$ is 60 units in length. Find QR.

$5x + 4 + 16 + 3x = 60$

$8x + 20 = 60$

$-20 \qquad -20$

$\frac{8x}{8} = \frac{40}{8}$

$x = 5$

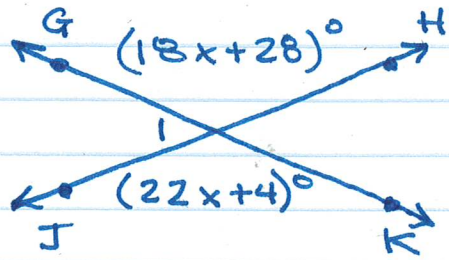
$QR = 5x + 4$

$= 5(5) + 4$

$= 25 + 4$

$\boxed{QR = 29}$

Ex:) $\angle GIH$ & $\angle JIK$ ARE VERTICAL ANGLES. WHAT IS THE MEASURE OF EACH ANGLE?



$\angle GIH = 18x+28$

$= 18(6)+28$

$= 108+28$

$\boxed{\angle GIH = 136^\circ}$

$18x+28 = 22x+4$

$-18x \qquad -18x$

$28 = 4x+4$

$-4 \qquad -4$

$\frac{24}{4} = \frac{4x}{4}$

$6 = x$

$x = 6$