1.2. Linear Equations

Ex: Solve -2(x+5)-3 + 4x+2-2x - 10 - 3 + 4x + 2-2x-13 + 4x+2-6x - 13 = 2

- 6x = 15 $-\frac{6x}{-6} = \frac{16}{-16}$ $\chi = -\frac{5}{2}$

 $\frac{\chi - 2}{3} + \frac{5\chi}{2} = \frac{1}{2} + 6$

Multiply by 6: $\left(\sqrt{\frac{x-\lambda}{3}} + \frac{5x}{2}\right) = \left(\sqrt{\frac{1}{2}} + 6\right)$

 $6\frac{(x-2)}{x} + \frac{3(5x)}{x} = \frac{6}{2} + 36$ 2(x-2) + 3(5x) = 3 + 36 2(x-2) + 3(5x) = 39

17x - 4 = 39

17x = 43

 $\frac{17x}{17} = \frac{43}{17}$

x = 43

multiply by $\frac{5x}{3} = \frac{7}{8}$ More: $\frac{5x}{3} = \frac{7}{8}$ More: $\frac{5x}{24} = \frac{7}{8}$ $\frac{5x}{3} = \frac{7}{8}$ More: $\frac{1}{15} = \frac{1}{4}$ $\frac{4}{15} = \frac{1}{4}$ $\frac{40x}{40} = \frac{21}{40}$ $\frac{20x}{40} = \frac{21}{40}$ This is the end of Section 1.2.

Tomorrow: 1.4 and start 1.5