## Gaussian Elimination Ex. 1 3x, +4x2 + 3x3 = 10 $x + 5x_2 - x_3 = 7$ $6x + 3x_2 + 7x_3 = 15$ 3 4 3 10 1 5 -1 = 7 6 3 7 15 3 4 3 10 0 \frac{11}{3} -2 \frac{11}{3} \text{ subtract raw 2 by pnot (\frac{1}{3})} 6 3 ] \frac{15}{15} 3 4 3 0 3 -2 0 -5 1 10 1/3 5 subtract ww 3 by prot (2) 10 13 0 subtract row 3 by row2 (-17) Back Substitution Back Substitution 1 row 3: $-\frac{19}{11} \times_3 = 0$ $\times_3 = 0$ row 2: $\frac{1}{3} \times_2 + \frac{1}{2} \times_3 = 1$ row 1: $3 \times_1 + 4 \times_1 + 3 \times_2 = 1$ x=2 x=1 x3=0