8.6B Wednesday, April 09, 2014 9:31 AM ACT Practicel (j) b 6 K θc (12) k (18) K (13 a 19b (<mark>I</mark>∲ f (15) More Solving!  $\frac{1}{x-2} + 2 \cdot \frac{x-2}{x-2} \quad \frac{3x}{x+2}$   $\frac{1}{x+2} \quad \frac{3x}{x+2} \quad \frac{3x}{x+2}$  $(\mathbf{I})$  $\frac{18}{x(x-3)} - \frac{6}{x-3} \cdot \frac{x}{x} = \frac{5}{x}$ x-2 X-2 X+2  $\frac{18-6x}{x(x-3)} = \frac{5}{x}$  $\frac{1+2\chi-4}{\chi-2} = \frac{3\chi}{\chi+2}$ 18-6x 5 (X<sup>2</sup>-3x) X 2X-3 3X  $x(18-6x) = 5(x^2-3x)$ 

X-2 X+2  $x(18-6x) = 5(x^2-3x)$ 3x(x-2) = (2x-3)(x+2) $18X - 6X^2 = 5X^2 - 15X$  $3\chi^{2} - 6\chi = 2\chi^{2} + 4\chi - 3\chi - 6$  $-2\chi^{2} - 2\chi^{2}$ 0 = 11x(x-3)-2x2  $X^{2} - 7X + 6 = 0'^{x}$  $0 = 11 \times 0 = X - 3$ X¥Q X≠S (X - G)(X - I) = 0no real solution  $X-G=0 \quad X-I=0 \\ X=6 \quad X=1$ Ð  $\frac{2}{X-3} - X \cdot \frac{X-3}{X-3} = \frac{X-1}{X-3}$ <u>- 2x +1</u> x+6  $\frac{2 - x(x-3)}{x-3} = \frac{x-1}{x-3}$ X+1 + 2(X+6) = 2X+1X+6 $2 - X^2 + 3X = X - 1$ X-3 X-3  $\frac{X+1+2X+12}{X+6} = \frac{2X+1}{X+6}$  $2 - \chi^2 + 3\chi = \chi - 1$  $-\chi^{2} + 2\chi + 3 = 0$  $-(\chi^2 - 2\chi - 3) = 0$  $\frac{3x + 13}{x + 6} = \frac{2x + 1}{x + 6}$ -(X-3)(X+1)=0X=Z,-1 3x + |3 = 2x + |X = - 2