Factoring:
IS THERE A GCF?!?!
Greatest Common Factor: GCF() $\frac{490}{200}$
2x(x+2)
2 Terms: Difference of Two Squares: $(\sqrt{1+\sqrt{2}})(\sqrt{1-\sqrt{2}})$
\times^{2} 36
3 Terms: Trinomials: $(x)(x)$
1) First sign comes down
2) The two signs must multiply for the last sign
3) Find two numbers that multiply to the last number and
add/subtract to the middle number
3x212x-8pt x24x-12
3 Terms: Tricky Trinomials $x^{2} + 2x - 24$ $(x - 6)(x + 2)$
Bridge Method: (x+6)(x-4)
1) Build a bridge between the first and last numbers x-3)(2x+1)
(Multiply)
2) Factor Trinomial Normally
3) Pay the toll (Divide by the leading coefficient)
*If possible, reduce the fraction
If they divide nicely, divide them
If not, put the denominator in front of the variable inside the
parenthesis (3)
$\frac{(\lambda - 3)}{\sqrt{2}} = \frac{9}{\sqrt{2}} \times \frac{49}{\sqrt{2}} = 0$
4 Terms: Grouping: ()()
1) Factor out the GCF in each group
*Factor out a negative if a negative is in front of the group.
2) Combine coefficients and keep like term. $(\cancel{2}-9)(\cancel{x}-5-)$
(x+3/x-3)(x-5)
CAN YOU FACTOR FURTHER?!?!?!
$2x^2 = 50$
2(1/2-25)
2(x+5)(x-5)