Welcome!

Please place all cell phones in holder and go to board for warm-up

Solve by Factoring

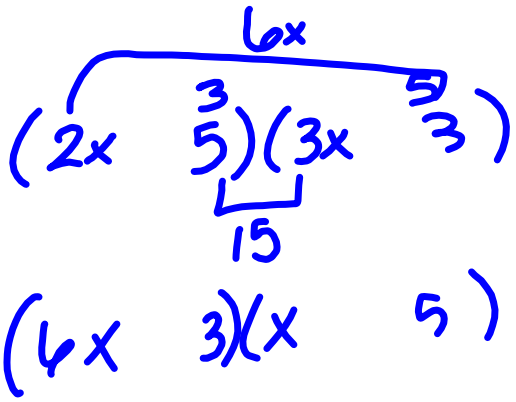
Zero Product Property: if (a)(b)=0 then either a=0, b=0, or both equal zero.

When: You have an equation (=)

How:

1. Set the equation equal to 0
2. Factor the polynomial
3. Set each factor =0
4. Solve each equation

$x^2 - 14x = 0$	$5x^2 - 30x - 35 = 0$	$6x^2 - 13x = 15$
$x(x-14)=0$ $x=0$ $x-14=0$ $+14\ +14$ $x=0\ \ x=14$	$5(x^2-6x-7)=0$ $5(x-7)(x+1)=0$ $5 \neq 0$ $x-7=0\ \ x+1=0$ $x=7\ \ x=-1$	$6x^2-13x-15=0$ $(1x-3)(6x+5)=0$ $-18x$ $+5x$ $-13x$ $x-3=0\ \ 6x+5=0$ $x=3\ \ -5\ -5$ $\frac{6x}{6}=\frac{-5}{6}$ $x=3\ \ x=\frac{-5}{6}$


6x
3
5
(2x 5)(3x 3)
15
(4x 3)(x 5)