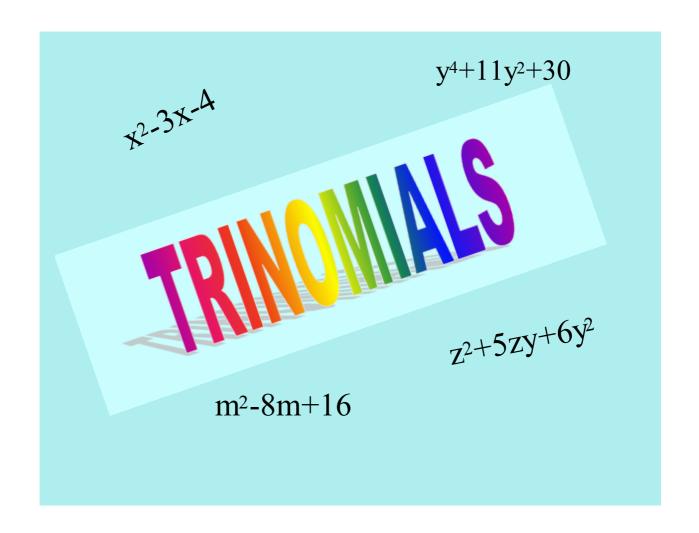
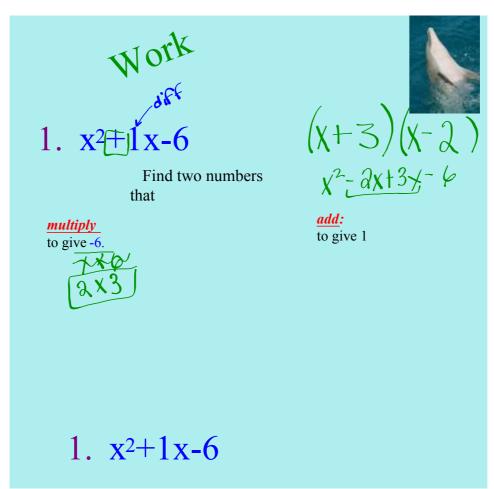


$$\frac{(\chi + 16)(\chi - 3)}{\chi^2 + 16\chi - 3\chi} - 48$$

$$\chi^2 + 13\chi - 48$$





Another way to look at it:

1.
$$x^2+1x-6$$

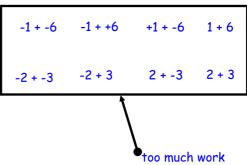
What numbers multiply to give -6?

list factors of 6:

1 x 6

2 x 3

What pair of factors could add together to get 1?



See next page for rules!!!!!!!

$$x^2 - 5x + 6$$

Add -5 Mult +6 -2 a - 3 [x6 2x3]

(x-2)(x-3)

So must be 1 6

2 3 only pair that works

(x-2)(x-3) are your factors

$$x^2 + 5x - 6$$

So must be

- only pair
 -1 +6 that works
- -2 +3

$$(x-1)(x+6)$$
 are your factors

#1-10

Factor Each of the following:

(Finish For homework)

1. x ² - 14x + 45	2. $x^2 + 17x + 60$
3. $x^2 - 18x + 80$	4. $x^2 - 10x + 16$
5. $x^2 - 6x + 9$	6. x ² - 7x + 6
7. $x^2 + 20x + 99$	8. $x^2 + 3x - 18$
9. x ² - 3x - 88	10. $x^2 - 16x + 48$
11. $x^2 + 11x + 30$	12. x ² - 14x + 33
13. $x^2 + x - 30$	14. x ² - 3x - 70
15. x ² + 8x - 9	16. x ² - 16x + 55
17. $x^2 + 6x - 72$	18. x ² + 5x - 50
19. $x^2 + 10x + 24$	20.

 $x^{2} + 20x + 99$ x99 + 20 $x^{3} = 20$ $x^{2} + 20x + 99$ $x^{3} = 20$ $x^{3} = 20$ x^{3}