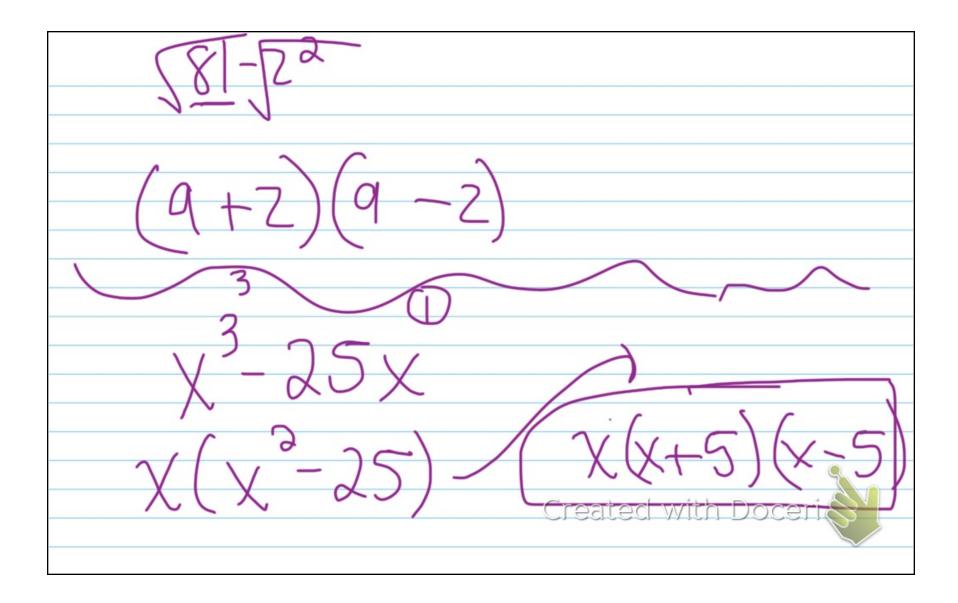
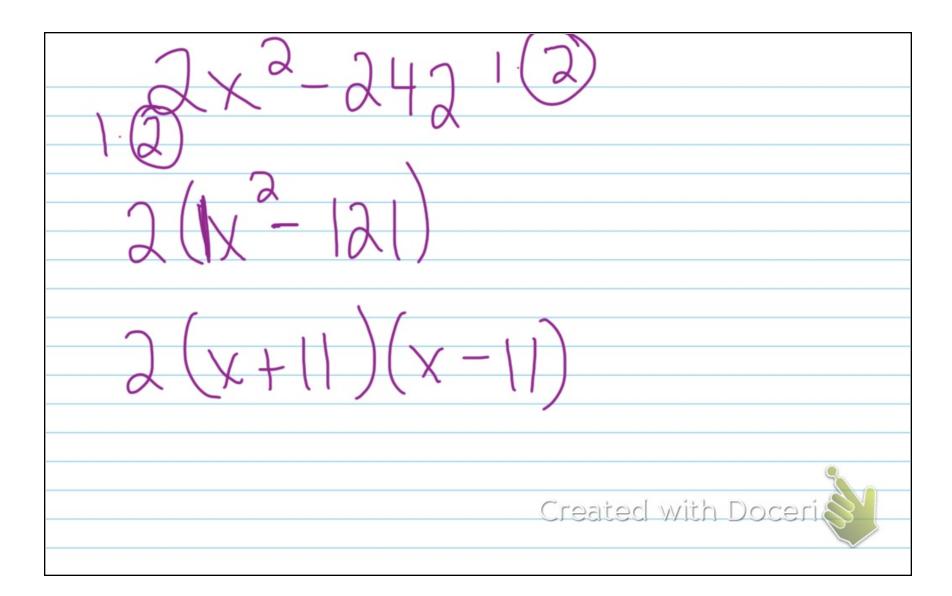
Unit 5 Part 1

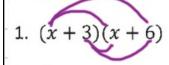
_lsson 3

Trinomial Factoring A=1





Multiply (Distribute):



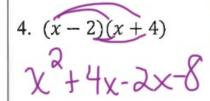
$$\chi^{2} + 9\chi + 18$$

2.
$$(x-4)(x-5)$$

 $\chi^2 - 5x - 4x + 20$

3.
$$(x+5)(x-3)$$

 $\chi^2 - 3x + 5x - 15$



- \triangleright How to factor trinomials: $|x^2 + bx + c|$
 -)(x **STEP 1**: (x
 - Find 2 numbers that **multiply** to = cSTEP 2: that add/subtract to = b
 - **STEP 3**: Put the PLUS / MINUS signs in correctly

1.12 > Factor Completely:

$$5 \text{ M}$$

1. $x^2 + 6x + 8$

2.
$$x^2 + 7x + 12$$
 3.4

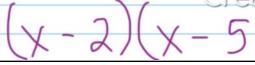
3.
$$x^2 + 10x + 21$$

$$(x+3)(x+7)$$

4.
$$x^2 - 5x + 6$$
 2 3

5.
$$x^2 - 7x + 10$$
 2 5

6.
$$x^2 - 8x + 7$$



7.
$$x^{2} + 2x - 15$$
, 3 5 8. $x^{2} + |x - 20|$ 2 10 9. $x^{2} + 6x - 16$ 2 4 4 4 4 5 ($x + 5$)($x - 3$) ($x + 5$)($x - 4$) ($x + 8$)($x - 2$) 10. $x^{2} - 3x - 10$ 2 5 11. $x^{2} - 10x - 24$ 2 12. $x^{2} - 8x - 9$ 3 3 - ($x + 2$)($x - 2$) 4 6 ($x + 3$)($x - 4$) ($x + 3$)($x - 4$) ($x + 3$)($x - 6$) ($x + 6$) ($x - 6$) 1 10 12. $x^{2} - 8x - 9$ 3 3 - ($x + 2$)($x - 12$) 1 12. $x - 10x - 12$ 1 13. $x - 10x - 12$ 1 12. $x - 10x - 12$ 1 13. $x - 10x - 12$ 1 14. $x - 10x - 12$ 1 15. $x - 10$

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13. $x^2 - 4x - 21$ 2 3	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	3 24 4 18
(x+3)(x-7)	(x+9)(x-8)89(x+1)(x+2)
	$(x+9)(x-8)^{89}(x+1)(x+2)$ 17. $3x^2+18x+24$
$2(x^2-3x-10)^2$	3(x2+6x+8) 2.4 5(x2+2x-15) 3.5
2(x+2)(x-5)	3(x+2)(x+4) $5(x-3)(x+5)$
	$3(x^2+4x+2x+8)$
	3(x2+6x+8) Created with Doceri
	3x2+18x+24

Factor.

1.
$$y^2 - 4y + 3$$

2.
$$d^2 + 17d + 72$$

3.
$$b^2 + 44b - 45$$

8.
$$y^2 + 7y + 10$$

9.
$$t^2 - 3t - 10$$

10.
$$z^2 - 12z + 20$$

11. $7b^2 - 7b - 14$

4.
$$y^2 - 69y - 70$$

5.
$$g^2 - 12g + 35$$

6.
$$c^2 + 5c - 6$$

7.
$$d^2 - 6d - 40$$

12.
$$y^2 + y - 20$$

13.
$$p^2 + 10p + 21$$

14.
$$p^2 - 6p + 5$$

15.
$$z^2 + 15z + 14$$

23.
$$k^2 + 4k - 5$$

16.
$$x^2 - 3x - 4$$

24.
$$r^2 - 5r + 6$$

17.
$$w^2 + 7w + 6$$

25.
$$a^2 + 6a - 27$$

18.
$$2x^2 - 26x + 24$$

26.
$$a^2 - 5a - 14$$

19.
$$h^2 - 2h - 8$$

27.
$$x^2 - 15x + 56$$

20.
$$3a^2 + 9a + 6$$

28.
$$p^2 - 19p + 88$$

21.
$$k^2 + 11k + 24$$

29.
$$g^2 + 12g + 35$$

22.
$$5w^2 + 10w - 15$$

30.
$$x^2 - 13x + 40$$

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