Unit 5 Part

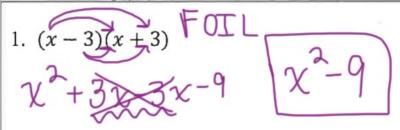
Lesson 2

Difference of Squares

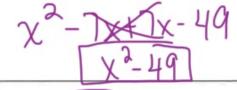
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Lesson 5 → Difference of Squares Factoring

➤ Multiply (Distribute):



2.
$$(x+7)(x-7)$$



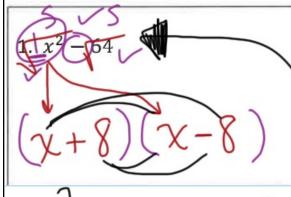
3.
$$(2x+5)(2x-5)$$

4.
$$(x^3-4)(x^3+4)$$

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- ✓ Factoring Difference of Squares \Rightarrow $a^2 b^2 = (a b)(a + b)$
- ✓ Perfect Squares:

121 144 169 196 225 256 289 324 361 400

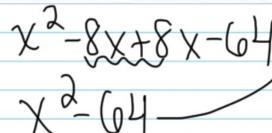


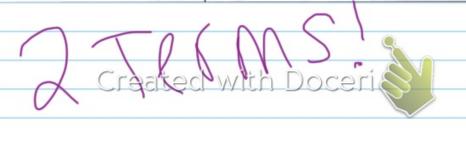
2.
$$x^2 - 4$$

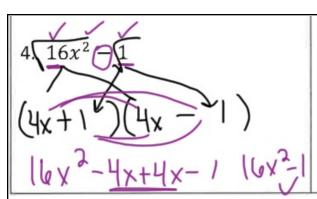
$$(x+2)(x-2)$$

3.
$$x^4 - 36$$

$$(x_3 + 0)(x_5 - 0)$$







6.
$$81x^6 - y^2$$

➤ Two – Step Factoring : Factor Completely *** Check for a GCF first!!

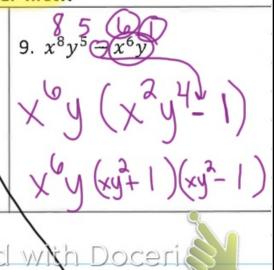
7.
$$2x^{2} - 32$$

$$2(x^{2} - 16)$$

$$2(x + 4)(x - 4)$$

$$3x(x^{2}-4)$$

$$3x(x+2)(x-2)$$



$$3\times(x^2+2\times-2x=4)$$
d who $3\times(x^2-4)$ $3\times^3=12\times$

1. $x^2 - 25$

2. $4x^2 - 49$

3. $16x^2 - 25y^2$

4. $8x^2 - 32$

5. $81 - z^2$

6. $9x^2 - 36$

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7. $2x^2 - 242$

8. $x^4 - 144y^2$

9. $49 - x^2$

10. $x^4 - 16$

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