

November 14, 2017

① Difference of Two Squares

$$a^2 - b^2 = (a+b)(a-b)$$

$$\boxed{81x^2} - \boxed{49y^2} = (9x+7y)(9x-7y)$$

$$a=9x \quad b=7y$$

② Sum of Two Cubes

$$a^3 + b^3 = (a+b)(a^2 - ab + b^2)$$

$$\boxed{8x^3} + \boxed{64} = (2x+4)(4x^2 - 8x + 16)$$

$$a=2x \quad b=4$$

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③ Difference of Two Cubes

$$a^3 - b^3 = (a-b)(a^2 + ab + b^2)$$

$$\boxed{125y^3} - \boxed{27} = (5y-3)(25y^2 + 15y + 9)$$

$$a=5y \quad b=3$$

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$$\boxed{8} - \boxed{x^3} = (2-x)(4 + 2x + x^2)$$

$$a=2 \quad b=x$$

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Do 6.5 ≠ 6.6
* Review class notes on Sum & Diff. of Two Cubes

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Chapter 7 - Rational Functions

$$f(x) = \frac{p(x)}{q(x)}$$

$$\frac{x^2 - 25}{x^2 - 10x + 25} = \frac{(x+5)(x-5)}{(x-5)(x-5)}$$

$$= \frac{x+5}{x-5}$$

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7.3 Simplifying Rational Functions

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