

Chapter
8 & 9
Summary

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1

5-1-12

ESSENTIAL QUESTION:

Write a summary of Night in 6 sentences.

QUESTIONS:

What happened in chapter 8?

NOTES:

Elie's father were very sick and have dysentery. So Elie take his father to the doctor but the doctor can't help him because he will die. One day Elie's father got beaten by some Jews and the food were taken away. Elie's father ask Elie to give him water. Then a SS Officer told Elie's father to be quiet but he can't hear so the SS Officer shot Elie's father in the head with his gun.

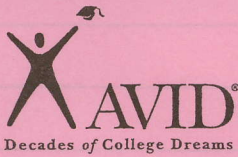
What happens in Chapter 9?

The next day Elie spent his day with silence without his father. Hitler going to make his promise to kill the Jews so the SS officer gather the Jews and about to kill but then a group of Jews called the Resistance movement fought back and chase the SS office away. Then after that the U.S and Russian Armies arrive.

160
160

SUMMARY:

Today I learned about what happen in Chapter 8 & 9 of Night like in Chapter 8, Elie's father is very sick and die and in Chapter 9, the Resistance movement fought back and the U.S and Russian arrived.



Vocabulary
for Europe

Chee Zeng Xiong

9

5-18-12

ESSENTIAL QUESTION:

How many countries are in Europe?

QUESTIONS:

What is national Identity?

NOTES:

National Identity: The person's identity and sense of belonging to one state or nation.

What is a ghetto?

ghetto - a part of a city occupied by a particular group, because of social or economic issues or they have been forced to live there.

What is Collective farm?

Collective farm - A farm, or a number of farms organized as a unit.

What is privatization?

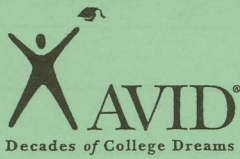
privatization - The incidence or process of transferring ownership of a business

What is a Holocaust?

- The massive destruction of 6 million Jews.

SUMMARY:

Today I learned about vocabulary for Europe like national Identity, ghetto, Holocaust, Collective farm and privatization.



water
cycle

Chee Zeng Xiong

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5-15-12

ESSENTIAL QUESTION:

Is there more water on the Earth after it rains?

QUESTIONS:

What is evaporation?

NOTES:

Evaporation: The process by which water molecules in liquid water escape into the air as water vapor. water-vapor

What is Condensation?

Condensation: The process by which molecules of water vapor in the air become liquid water. Vapor-water

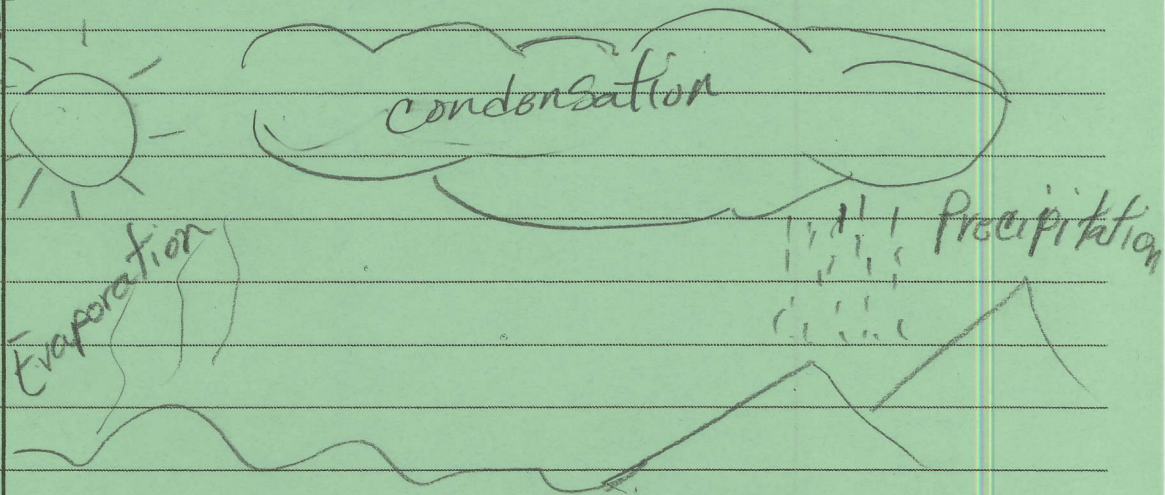
What is precipitation?

Precipitation: any form of water that falls from clouds and reach the Earth's Surface.

What is water-vapor?

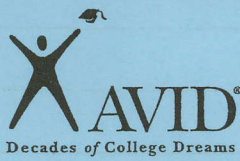
water vapor: water in the form of gas.

What is the water cycle?



SUMMARY:

Today I learned about the water-cycle like evaporation, Condensation, precipitation and Water vapor.



Solving
Quadratic equations
by factoring

Chee Zeng Xiong

2/8

5-7-12

ESSENTIAL QUESTION:

How do we solving quadratic equation by factoring?

QUESTIONS:

How are quadratic equations solved by factoring?

NOTES:

1. factor the quadratic equation

$$0 = ax^2 + bx + c$$

$$ax^2 + bx + c = (\quad + \quad) (\quad + \quad)$$

$$ax^2 + bx + c = (\quad - \quad) (\quad - \quad)$$

$$ax^2 + bx - c = (\quad + \quad) (\quad - \quad)$$

$$ax^2 - bx - c = (\quad - \quad) (\quad + \quad)$$

2. use the Zero product property

3. Solve for X.

Ex: $x^2 + 2x - 8 = 0$

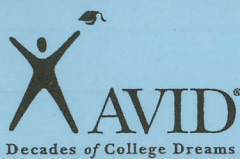
$$(x - 2)(x + 4) = 0$$

$$x - 2 = 0 \text{ or } x + 4 = 0$$

$$x = 2 \text{ or } x = -4$$

SUMMARY:

Today I learned about solving quadratic equations by factoring like first factor the quadratic equation, second use the zero product property and last solve for X.



Solving
Quadratic
equation

Chee Zeng Xiong

2/8

5-4-12

ESSENTIAL QUESTION:

How do we solve quadratic equation?

QUESTIONS:

What are quadratic equation and function?

NOTES:

- quadratic function: $y = ax^2 + bx + c$
- quadratic equation: $0 = ax^2 + bx + c$

1. Write the quadratic equation $-0 = ax^2 + bx + c$ as a quadratic function $y = ax^2 + bx + c$.

2. graph the function

3. The zeroes of the graph are the solution to the quadratic equation.

$$\text{Ex: } 0 = x^2 + 8x + 16$$

$$y = x^2 + 8x + 16$$

$$\frac{-8}{2(1)} = \frac{-8}{2} = -4$$

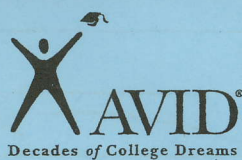
$$y = 16 - 32 + 16 = 0$$

$$(-4, 0)$$

$$x = -4$$

SUMMARY:

Today I learned about solving quadratic equation like write the quadratic equation, graph the function and The Zeros of the graph are the solution to the quadratic equation



Square
root function

Chee Leng Xiong

2/8

5-18-12

ESSENTIAL QUESTION:

How do I graph a Square root function?

QUESTIONS:

What is a Square root function?

NOTES:

A Square root function is a function whose rule contains a variable under a square root sign. $y = \sqrt{x}$

$$\begin{aligned} \text{Ex: } y &= 8\sqrt{x} \\ &= 8\sqrt{4} \\ &= 8(2) \\ &= 16 \end{aligned}$$

How do I determine the domain of a Square root function?

1) Set the expression under the radical sign greater than or equal to 0.

2) Solve for x

$$\begin{aligned} \text{Ex: } y &= \sqrt{x+4} - 3 \\ x+4 &\geq 0 \\ -4 &\quad -4 \\ \hline x &\geq -4 \end{aligned}$$

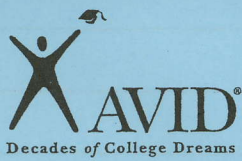
How do I graph a Square root function?

1) Find the domain
2) make a t-chart using x-values that are in the domain.
3) plot the points and draw the curve.

$$\begin{aligned} \text{Ex: } f(x) &= \sqrt{2x+3} \\ 2x &\geq 0 \end{aligned}$$

SUMMARY:

Today I learned about determining the domain of Square root function like set the expression under the radical sign greater than or equal to 0 and solve x. To graph a square root function you find the domain, make a t-chart and plot the point and draw the curve.



The Quadratic formula

Chee Zeng Xiong

2/8

5-11-12

ESSENTIAL QUESTION:

What is a Discriminant?

QUESTIONS:

NOTES:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad \text{--- Quadratic formula}$$

Discriminant

$$b^2 - 4ac \quad b^2 - 4ac$$

positive

2 solutions

zero

1 solution

Negative

No solution

How can you tell how many solutions a quadratic has?

EX: $3x^2 + 10x + 2 = 0$

$a = 3, b = 10, c = 2$

$$b^2 - 4ac$$

$$10^2 - 4(3)(2) \quad 2 \text{ solutions}$$

$$100 - 24$$

$$76$$

How can you find the solutions?

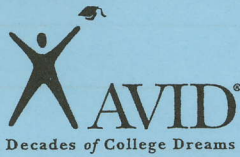
1. put the equation in standard form
2. Use the Quadratic formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

SUMMARY:

Today I learned about Quadratic formula:

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ and first you put the equation in standard form then use the formula to solve it.



Using
Square roots to
Solve quadratics

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2/8

5-10-12

ESSENTIAL QUESTION:

How do I solve quadratics if $b=0$?

QUESTIONS:

When do you
Solve quadratics
using Square
roots?

NOTES:

- When the equation is $y = ax^2 + c$
The Square root method works when
"x" term is missing
 $x^2 - 49 = 0$
 $x^2 - 5x + 6 = 0$

Square roots of a numbers have
two answer; one is positive & one is
negative.

$$\text{Ex: } \sqrt{49} = \pm 7$$

Cannot take the Square root of a negative
number.

$$\text{Ex: } x^2 = -49$$

$$\sqrt{x^2} = \sqrt{-49}$$

$$x = \text{NO SOLUTION}$$

Square root of a fraction:

$$\sqrt{\frac{81}{144}} = \pm \frac{3}{4}$$

SUMMARY:

Today I learned about using Square root to
Solve quadratic, The Square root method works when "x" term
is missing, and Square^{root} of a fraction is the Square root of the
numerator and denominator.