

1.6 Next-Now Sequences

1. inductive reasoning is where you create a hypothesis. Deductive reasoning is where you find proof to prove the hypothesis

2. up to student

3. 22, 26, 30

$$\text{Next} = \text{NOW} + 3$$

4. 405, 1215, 3645

$$\text{Next} = 3\text{NOW}$$

5. 10.9375, 2.73, 0.68

$$\text{Next} = \frac{\text{NOW}}{4}$$

4

6. 53, 101, 197

$$\text{Next} = 2\text{NOW} - 5$$

7. 18, 13, 8

$$\text{Next} = \text{NOW} - 5$$

8. 2130, 8530, 34130

$$\text{Next} = 4\text{NOW} + 10$$

9. $\text{Next} = \text{NOW} + 2$

10. $\text{Next} = 2\text{NOW} + 1$

11. Statement

$$5x + 2(x - 5) = 32$$

$$5x + 2x - 10 = 32$$

$$7x - 10 = 32$$

$$7x = 42$$

$$x = 6$$

Reason

Given

Dist. prop.

Simplify

Add. prop

Division prop

12. Statement

$$6x - 2(x - 6) - 13 = 39$$

$$6x - 2x - 12 - 13 = 39$$

$$4x - 25 = 39$$

$$4x = 64$$

$$x = 16$$

Reason

Given

Dist. prop

Simplify

Add. prop

Division prop