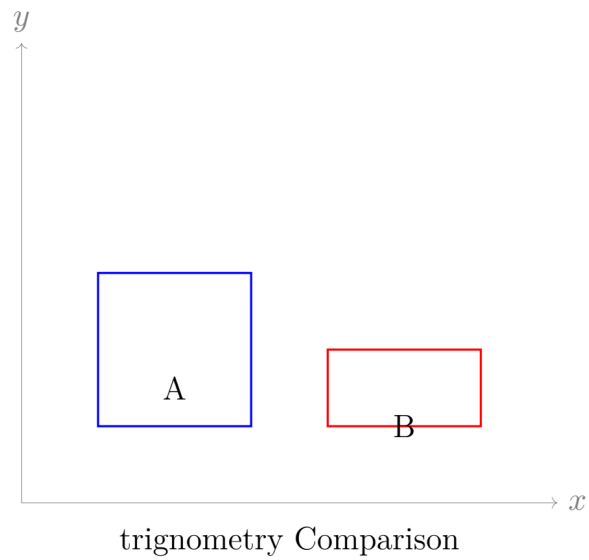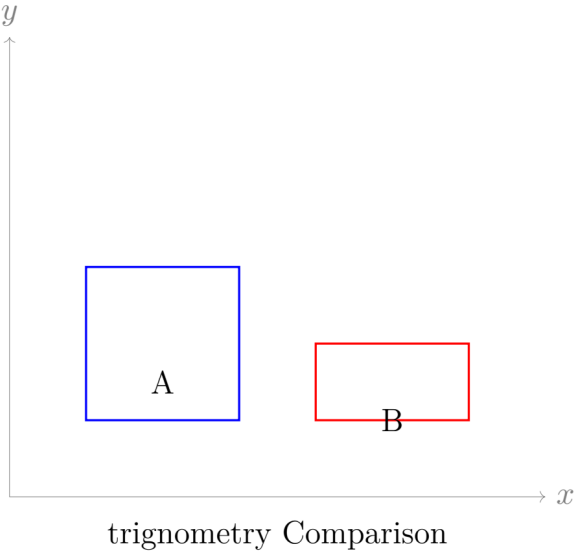# Pattern 6: Pattern Recognition in trignometry

Question 1: Calculate the value shown in the trignometry diagram for the given parameters.

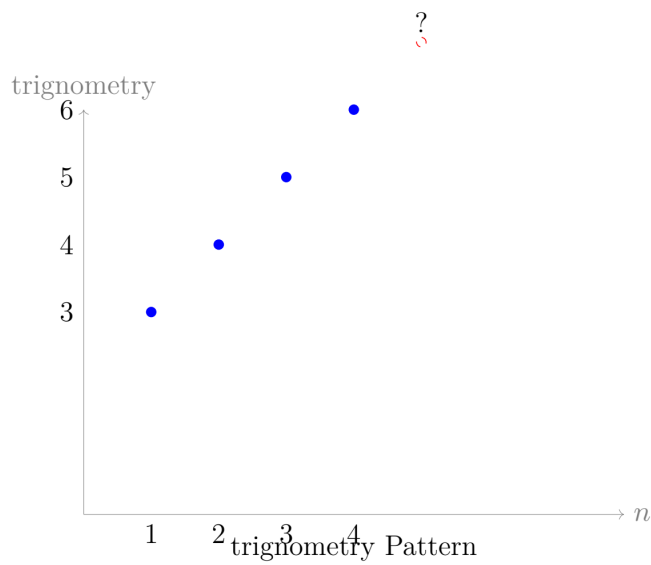
trignometry Comparison

Answer: The calculated value is 5 based on the trignometry formula shown.

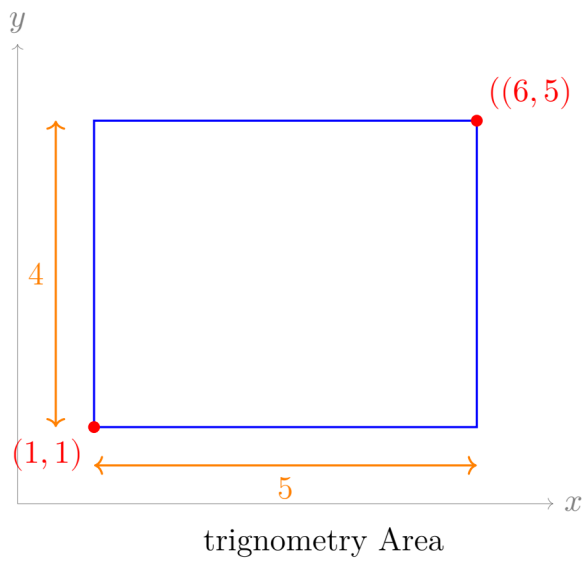**Question 2:** Compare the two quantities shown in the trignometry diagram and determine which is larger.

A

B

trignometry Comparison

Answer: *Quantity A is larger than Quantity B by 3 units in this trignometry problem.*

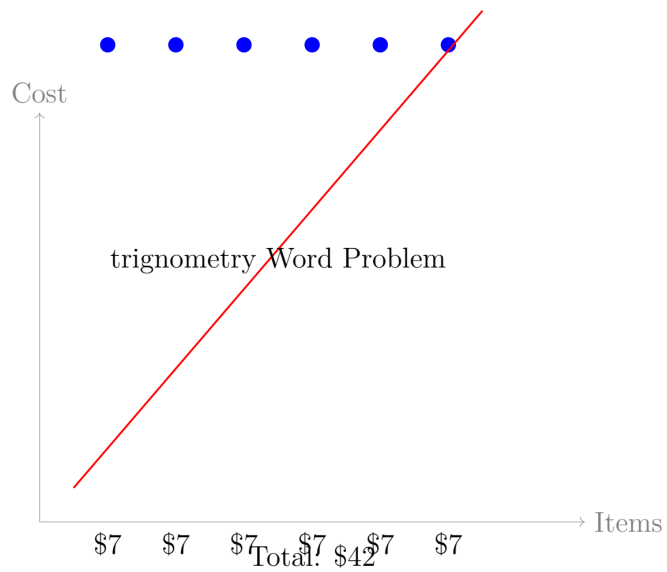**Question 3:** Identify the pattern shown in the trignometry diagram and predict the next value.

?

trignometry

6 •

5 •

4 •

3 •

1   2   3   4 n
trignometry Pattern

Answer: *The pattern increases by 3 each step, so the next value is 8.*

Question 4: Find the area of the trignometry shape shown in the diagram.

trignometry Area

Answer: *The area is 30 square units for this trignometry shape.*

Question 5: A trignometry scenario shows 6 items. If each item costs $7, what is the total cost?

Cost

trignometry Word Problem

Items

$7 $7 $7 Total: $42 $7 $7

Answer: Total cost = 6 × $7 = $42

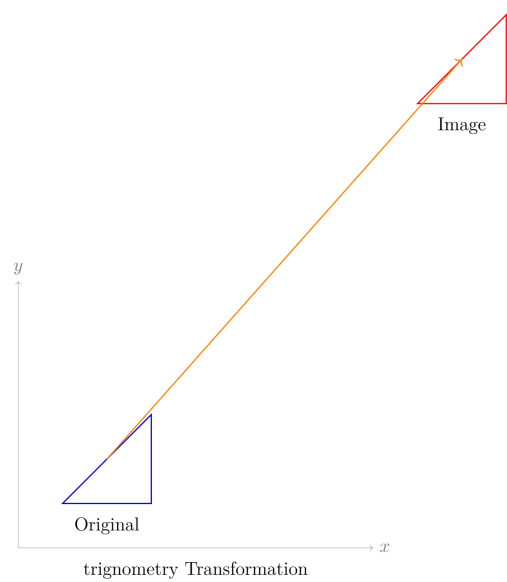**Question 6:** What is the maximum value shown in the trignometry graph?

Answer: The maximum value is 13 occurring at x = 6.

Question 7: In the trignometry proportion shown, if the first ratio equals 8:7, find the missing value.
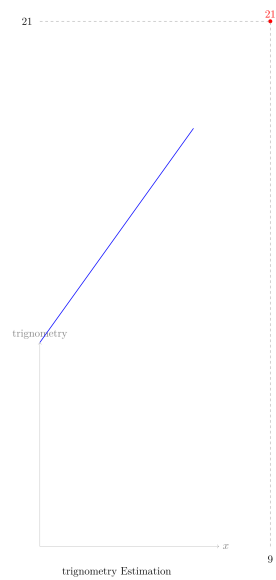
Answer: The missing value is 10.285714285714286 ≈ 10.3

Question 8: The trignometry shape is transformed as shown. What type of transformation occurred?

Image

Original

trignometry Transformation

Answer: This is a translation by (8, 9) units in the trignometry context.

Question 9: Estimate the value shown in the trignometry diagram to the nearest whole number.

21 - 21

trignometry

x

9

trignometry Estimation

Answer: The estimated value is approximately 21 for this trignometry problem.

Question 10: Solve the multi-step trignometry problem shown in the diagram.

19

trignometry

3

2

1

Step Step Step 3
Trignometry Multi-step

Steps

Answer: The solution involves 10 steps, resulting in 19 as the final answer.