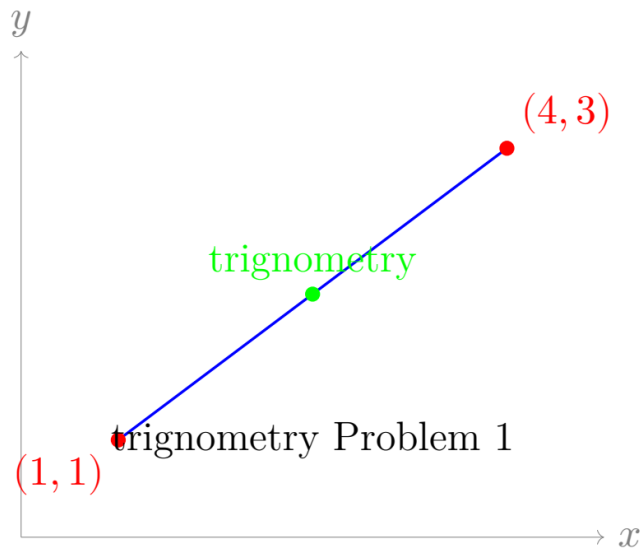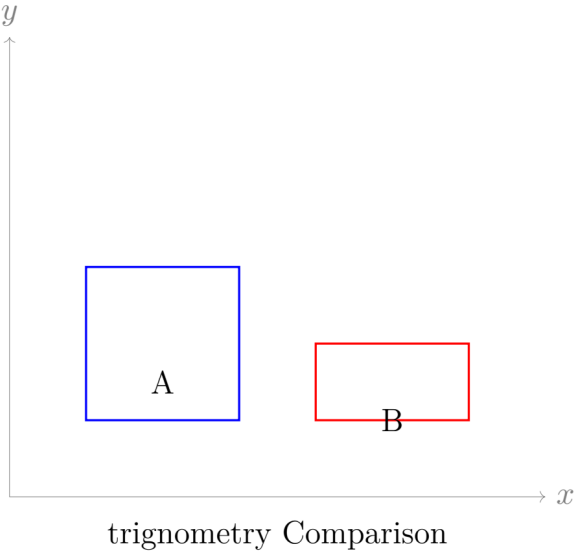# Pattern 0: Basic Problem Solving in trignometry

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

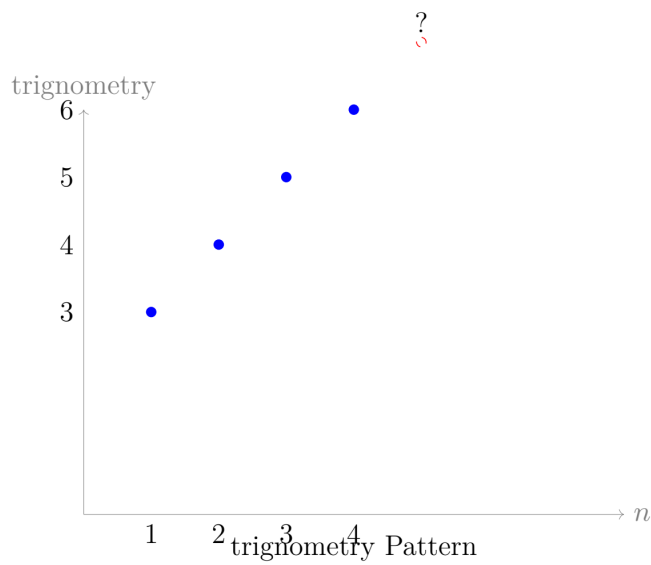
Answer: The calculated value is 5 based on the trignometry formula shown.

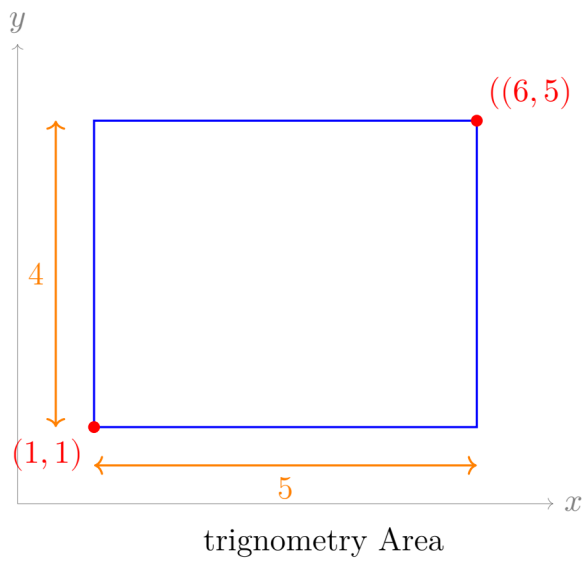**Question 2:** Compare the two quantities shown in the trignometry diagram and determine which is larger.

A

B

trignometry Comparison

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

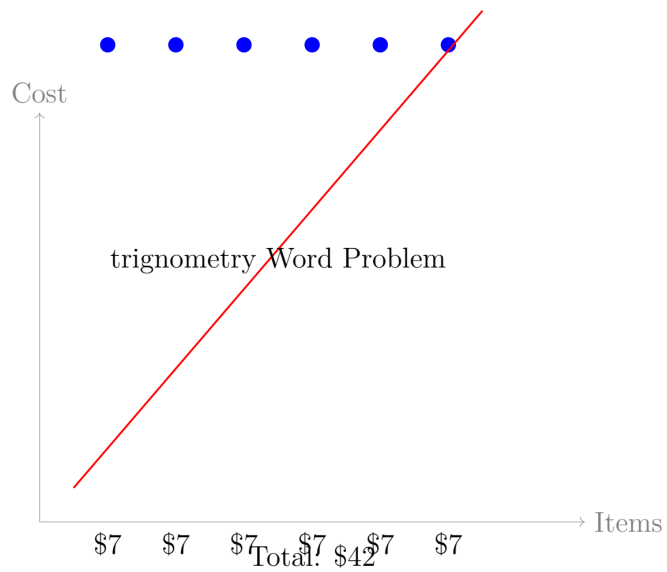**Question 3:** Identify the pattern shown in the trignometry diagram and predict the next value.

?

trignometry

6

5

4

3

1   2   3   4

trignometry Pattern

n

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

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

Items

Answer: Total cost = 6 × $7 = $42

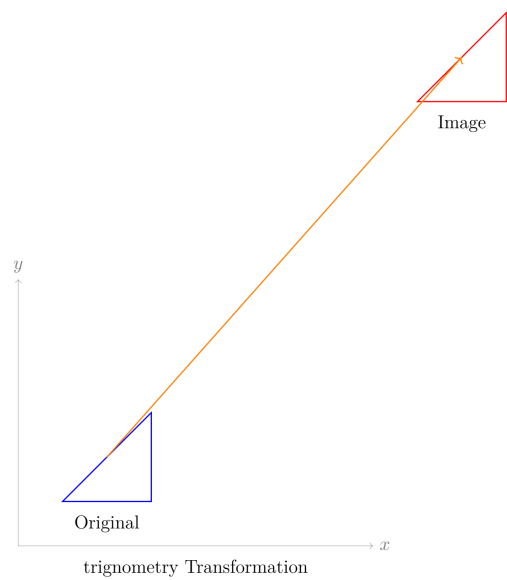**Question 6:** What is the maximum value shown in the trignometry graph?

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.
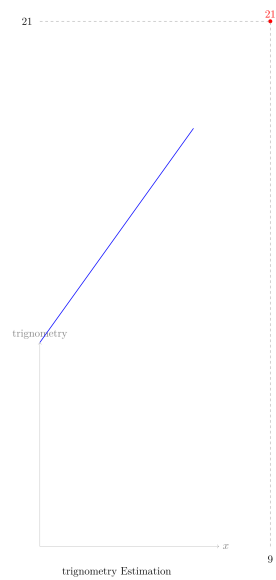
Answer: *The missing value is 10.285714285714286 ≈ 10.3*

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

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

Steps

Step Step Step 3
trignometry Multi-step

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

19