

WARM-UP

Problem 1 Consider the equation of a circle of radius r , $x^2 + y^2 = r^2$. For each of x , y and r , determine if it is a parameter or a variable.

PROBLEMS

Problem 2 Consider the problem:

$$6 + 6 = \square + 3$$

What goes into the box?

- a) What does go into the box?
- b) Many students will answer “12”. Why might they do that?
- c) Come up with as many different ways as possible to convince such a student that their answer is incorrect. Discuss the pros and cons of each strategy.

Be prepared to discuss this question in a large group.

Problem 3 Do Activity 9G on page 192 of Beckmann.

Problem 4 Do Activity 9H on page 193 of Beckmann.

Problem 5 Do Activity 9F on page 191 of Beckmann.