



Problem Solving Strategies

- **Look for a pattern**

Example: Find the sum of the first 100 even positive numbers.

Solution:

The sum of the first 1 even positive numbers is 2 or $1(1+1) = 1(2)$.

The sum of the first 2 even positive numbers is $2 + 4 = 6$ or $2(2+1) = 2(3)$.

The sum of the first 3 even positive numbers is $2 + 4 + 6 = 12$ or $3(3+1) = 3(4)$.

The sum of the first 4 even positive numbers is $2 + 4 + 6 + 8 = 20$ or $4(4+1) = 4(5)$.

Look for a pattern:

The sum of the first 100 even positive numbers is $2 + 4 + 6 + \dots = ?$ or $100(100+1) = 100(101)$ or 10,100.

- **Make an organized list**

Example: Find the median of the following test scores: 73, 65, 82, 78, and 93.

Solution: Make a list from smallest to largest:

65

73

78 Since 78 is the middle number, the median is 78.

82

93

- **Guess and check**

Example: Which of the numbers 4, 5, or 6 is a solution to $(n + 3)(n - 2) = 36$?

Solution: Substitute each number for "n" in the equation. Six is the solution since $(6 + 3)(6 - 2) = 36$.

Fcat 9th Study Guide

H Kauffman



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web find the value of the discriminant of each quadratic equation $1. 6p^2 - 2p - 3 = 0$ $2. 7x^2 - 2x - 1 = 0$ $3. 4m^2 - 4m - 5 = 0$ $4. 9b^2 - 4b - 2 = 0$ $5. r^2 - 5r - 2 = 0$ $6. 2p^2 - 5p - 4 = 0$ $7. 5x^2 - 4x - 5 = 0$ find the discriminant of each quadratic equation then state the number of real and imaginary solutions

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