

Algebra 0507

Chapter 1

Intro to WS # 5

Name _____

Find the value of N for each formula. The replacement set for $x = \{3, 5, 7\}$.

1. $N = 3x - 2$ $x = 3$ $N = 3(3) - 2$ $N = 9 - 2$ $N = 7$ $x = 5$ $N = 3(5) - 2$ $N = 15 - 2$ $N = 13$ $x = 7$ $N = 3(7) - 2$ $N = 21 - 2$ $N = 19$	2. $N = \frac{x}{3} + 1$ $x = 3$ $N = \frac{3}{3} + 1$ $N = 1 + 1$ $N = 2$ $x = 5$ $N = \frac{5}{3} + 1$ $N = \frac{5}{3} + \frac{3}{3}$ $N = \frac{8}{3}$ $x = 7$ $N = \frac{7}{3} + 1$ $N = \frac{7}{3} + \frac{3}{3}$ $N = \frac{10}{3}$
3. $N = 2x(x-1)$ $x = 3$ $N = 2(3)(3-1)$ $N = 2(3)(2)$ $N = 6(2) = 12$ $x = 5$ $N = 2(5)(5-1)$ $N = 2(5)(4)$ $N = 10(4)$ $N = 40$ $x = 7$ $N = 2(7)(7-1)$ $N = 2(7)(6)$ $N = 14(6) = 84$	4. $N = x^3 - 2$ $x = 3$ $N = 3^3 - 2$ $N = 27 - 2 = 25$ $x = 5$ $N = 5^3 - 2$ $N = 125 - 2 = 123$ $x = 7$ $N = 7^3 - 2$ $N = 343 - 2 = 341$
5. $N = 3x^2 + 1$ $x = 3$ $N = 3(3)^2 + 1$ $N = 3(9) + 1$ $N = 27 + 1 = 28$ $x = 5$ $N = 3(5)^2 + 1$ $N = 3(25) + 1$ $N = 75 + 1 = 76$ $x = 7$ $N = 3(7)^2 + 1$ $N = 3(49) + 1$ $N = 147 + 1 = 148$	6. $N = (3x)^2 + 1$ $x = 3$ $N = (3 \cdot 3)^2 + 1$ $N = 9^2 + 1$ $N = 81 + 1 = 82$ $x = 5$ $N = (3 \cdot 5)^2 + 1$ $N = 15^2 + 1$ $N = 225 + 1 = 226$ $x = 7$ $N = (3 \cdot 7)^2 + 1$ $N = (21)^2 + 1$ $N = 441 + 1 = 442$