Name _____

Simplifying Expressions

Find the continued product.

1) $(x + 2)(x - 2)(x^2 + 4)$ = $x^4 - 4x^2 + 16$

2) $(x + 3)(x - 3)(x^2 + 9)$ = $x^4 - 81$

3) $(x + 4)(x - 4)(x^2 + 16)$ = $x^4 - 256$

4) $(x + 1)(x - 1)(x^2 + 2)$ = $x^4 - 2x^2 + 1$

5) $(x + 2)(x - 2)(x^2 + 3)$ = $x^4 - 4x^2 + 6$

6) $(x + 3)(x - 3)(x^2 + 4)$ = $x^4 - 9x^2 + 12$

7) $(x + 1)(x - 1)(x^2 - 1)$ = $x^4 - 1$

8) $(x + 2)(x - 2)(x^2 - 4)$ = $x^4 - 16$

9) $(x + 6)(x - 6)(x^2 + 36)$ = $x^4 - 1296$

10) $(x + 2)(x - 2)(x^2 - 1)$ = $x^4 - 4$

11) $(x + 3)(x - 3)(x^2 + 1)$ = $x^4 - 9$

12) $(x + 4)(x - 4)(x^2 + 2x + 4)$ = $x^4 - 16x^2 + 16$

13) $(x + 5)(x - 5)(x^2 + 2x - 5)$ = $x^4 - 25x^2 + 25$

14) $(x + 9)(x - 9)(x^2 + 4x + 16)$ = $x^4 - 81x^2 + 1296$

15) $(x + 1)(x - 1)(x^2 + x + 1)$ = $x^4 - 4x^2 + 4$