

Name _____

HW - Finish Handout

Wed., Dec. 8

Find Each Product Using F.O.I.L. Remember: F_{irst} O_{uter} I_{inner} L_{ast}

12) $(n + 4)(n + 1)$

13) $(3n + 2)(n + 6)$

14) $(x - 13)(x + 10)$

15) $(x + 2)(x + 4)$

16) $(x - 5)(x - 5)$

17) $(3x + 1)(x - 2)$

18) $(x^2 + 3)(3x^3 + x)$

19) $(x + 3)(x^2 + 2x - 1)$

20) Simplify $(x + 5)^2$

21) What is the product of $(c + 8)$ and $(c - 5)$?

22) The expression $(x - 6)^2$ is equivalent to
(1) $x^2 - 36$ (3) $x^2 - 12x + 36$
(2) $x^2 + 36$ (4) $x^2 + 12x + 36$

23) The expression $(a^2 + b^2)^2$ is equal to
(1) $a^4 + b^4$ (3) $a^4 + 2a^2b^2 + b^4$
(2) $a^4 + a^2b^2$ (4) $a^4 + 4a^2b^2 + b^4$