

Name \_\_\_\_\_

HW - Finish Handout

Wed., Dec. 8

Find Each Product Using F.O.I.L. Remember: F<sub>irst</sub> O<sub>uter</sub> I<sub>nner</sub> L<sub>ast</sub>

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)  $a^4 + 4a^2b^2 + b^4$