Feb 13

41. $b^2 + 14b + 48 \times 48$

$= (b+8)(b+6) + 14$

8, 6

43 $z^2 - 20z + 100$

$= (z-10)(z-10)$ $\times 100$ $+ -20$

$= (z-10)^2$ $-10, -10$

5 $2^2 - 4_2 - 4$

-4

$\pm(-4)$

Not possible

1, 4

$-2, 2$

47

$x+5=1$

$2+4$

$x+3$

$x+4$

$A = LW$

$A = x^2+9x+20$

20

$A = (x+4)(x+3)$

$A = (x+5)(x+4)$

$+9$

$A = x^2+3x+4x+12$

34

$A = x^2+7x+12$

p.285 Difference of Squares

Factor

1. $a^2 - 49$

$= (a+7)(a-7)$

$= a^2 - 7a + 7a - 49$

$= a^2 - 49$

3. $9m^2 - 49$

$= (3m-7)(3m+7)$

5. $x^2 - y^2$

$= (x-y)(x+y)$

$= x^2 + xy - xy - y^2$

$= x^2 - y^2$

8. $(a+5)(a-5)$

$= a^2 - 5a + 5a - 25$

$= a^2 - 25$

15. $(x-9)(x+9)$

$= x^2 + 9x - 9x - 81$

$= x^2 - 81$

13. $(2x-1)(2x+1)$

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

$= 4x^2 - 1$

18. $(10t-3)(10t+3)$

$= 100t^2 + \cancel{30t} - \cancel{30t} - 9$

$= 100t^2 - 9$

33 $(x^2+3)(x^2-3)$

FOIL

$= x^4 - 3x^2 + 3x^2 - 9$

$= x^4 - 9$

32. $(x-1)(x+1)(x^2+1)$

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

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

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

$x^4 - 1$

Hwk

→ Finish bx 3

→ bx 4 Difference of squares

hand-out 11 - 17