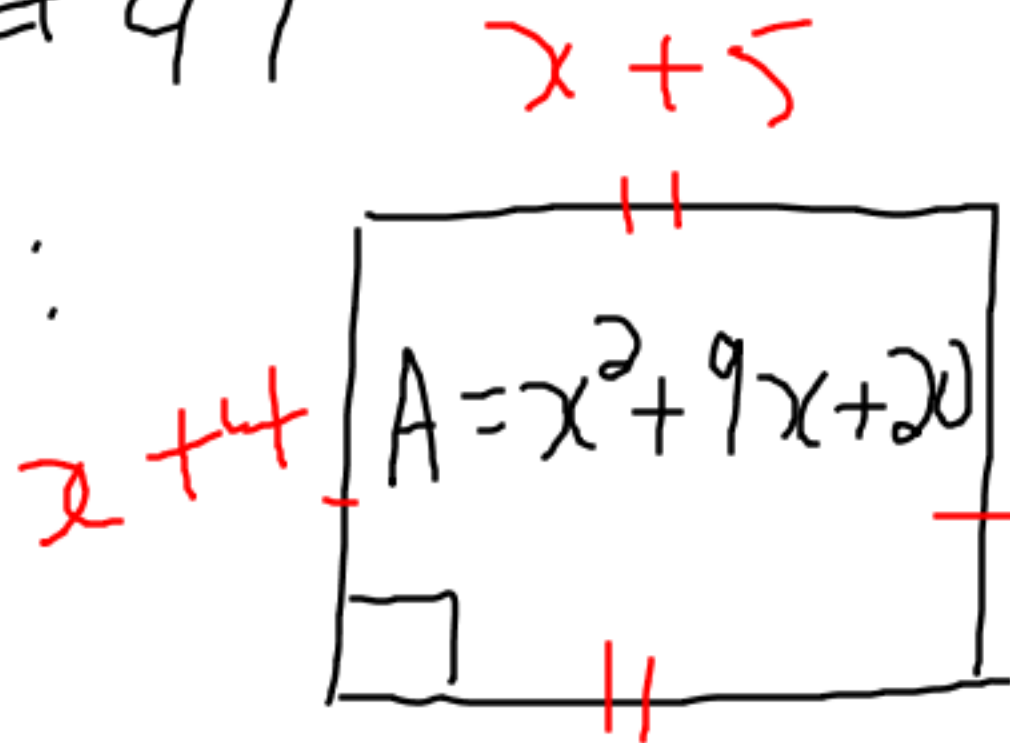


Pg. 283
#47

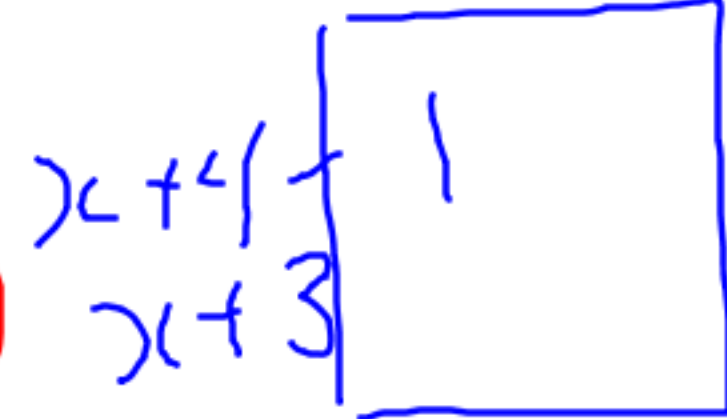
Feb. 12

Given:



$$x(20) + (9)$$

b) $x+5 = 14$



$$A = L \times W$$

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

$\therefore$ The area of the smaller rectangle is $(x^2 + 7x + 12)u^2$

$$4, 5$$

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

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

P.285 Difference of Squares

Feb 12

$$1. (a^2 - 49)$$

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

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

$$= a^2 - 49$$

$$3. \quad 9m^2 - 49$$

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

$$5. \quad x^2 - y^2$$

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

$$= (a+5)(a-5)$$

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

$$= a^2 - 25$$

Expand
Pol
//

$$10. (x-9)(x+9)$$

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

$$= x^2 - 81$$

$$12. (t-10)(t+10)$$

$$= t^2 + 10t - 10t - 100$$

$$= t^2 - 100$$

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

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

$$= 4x^2 - 1$$

$$14. (10t-3)(10t+3)$$

$$= 100t^2 + 30t - 30t - 9$$

$$= 100t^2 - 9$$

$$23. \quad (x^2+3)(x^2-3)$$

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

$$= x^4 - 9$$

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

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

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

$$= x^4 + 1x^2 - 1x^2 - 1 \quad \text{,, } x^4 - 1$$

p-287 Factoring the Difference of Squares

2. $w^2 - 100$
 $= (w-10)(w+10)$

- (4)
- (6)
- (10)
- (11)

15.

$y^2 + 144$
 $\neq (y+12)(y+12)$
 $\neq y^2 + 12y + 12y + 144$
 $\neq y^2 + 24y + 144$

~~NOT possible~~

Homework

p. 285 box 4

p. 287 thru 18

finish hand out Sheet

11-17