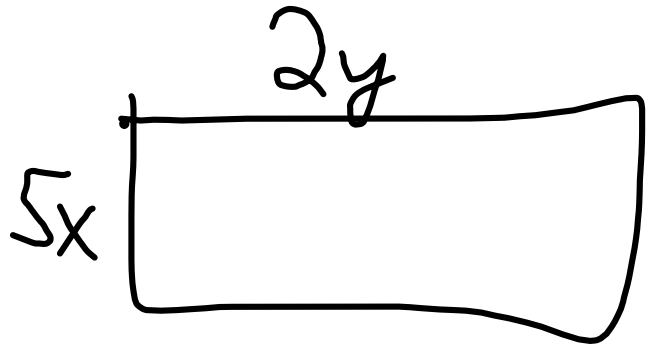
1g) pg271



$A = lw$

$A = 2y(5x) = 10xy$

1b)

$$A = (r^2)(5r)$$

$$A = 5r^3$$

p.271

#9a) $k(5-k) - 3(2k-k^2)$

$= 5k - k^2 - 6k + 3k^2$

$= 5k - 6k - k^2 + 3k^2$

$= -1k + 2k^2$

p.272
#10 d)

$4x(3x+2y-2)+3y(x-5y+3)$

$=12x^2+8xy-8x+3xy-15y^2+9y$

$=12x^2+11xy-8x+9y-15y^2$

$8xy(3xy)$
$24x^2y^2$

vs $8xy+3xy$
$=11xy$

10f)

$$2x(3x+5y)-2(x^2+3xy)-5y(3x^2-2x)$$

$$=6x^2+10xy-2x^2-6xy-15x^2y+10xy$$

$$=4x^2+14xy-15x^2y$$

10)

$$-(3a^2-2ab+b)+b(3a-5b)-2a(3a-b)$$

$$=-3a^2+2ab-b+3ab-5b2-6a^3+2ab \quad \text{error}$$

$$=-3a^2+2ab-b+3ab-5b^2-6a^2+2ab$$

$$=-9a^2+7ab-1b-5b^2$$

$$=-9a^2+7ab-b-5b2$$

10)

$$4a(3a^2-2a+4)-3a^2(2a-5)+a^2[3a^2-(a+4)]$$

$$=12a^3-8a^2+16a-6a^3+15a^2+a^2[3a^2-a-4]$$

$$=6a^3+7a^2+16a+3a^4-1a^3-4a^2$$

$$=+5a^3+3a^2+16a+3a^4$$

descending degree

$$=3a^4+5a^3+3a^2+16a$$

like terms