HW Review

5b.

$(4f - 3g)(3f - 4g + 1)$ $\quad -9gf.$

$4f(3f - 4g + 1) - 3g(3f - 4g + 1)$

$12f^2 - 16fg + 4f - 9fg + 12g^2 - 3g$

$12f^2 - 25fg + 4f + 12g^2 - 3g$

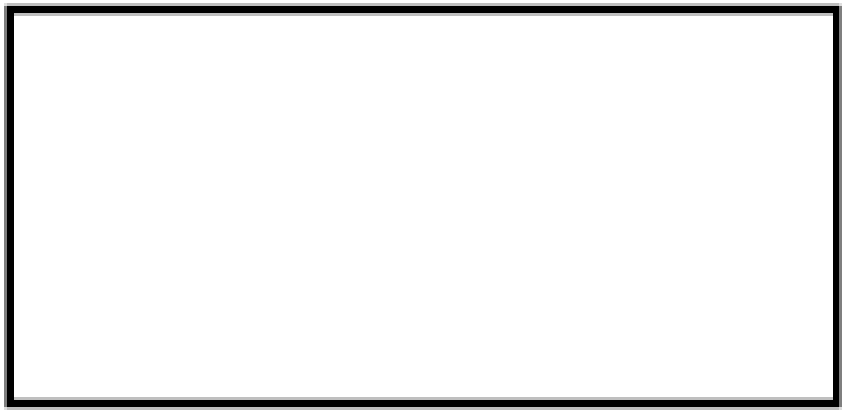
$(b^2 + 9b - 2)(2b - 1)$

$2b^3 - b^2 + 18b^2 - 9b - 4b + 2$

$2b^3 + 17b^2 - 13b + 2$

Work with polynomials....

Find an expression for the perimeter and area (simplify)



$A = l \times w$

$A = (3x-2)(2x+1)$

$= 6x^2 + 3x - 4x - 2$

$\boxed{A = 6x^2 - x - 2}$

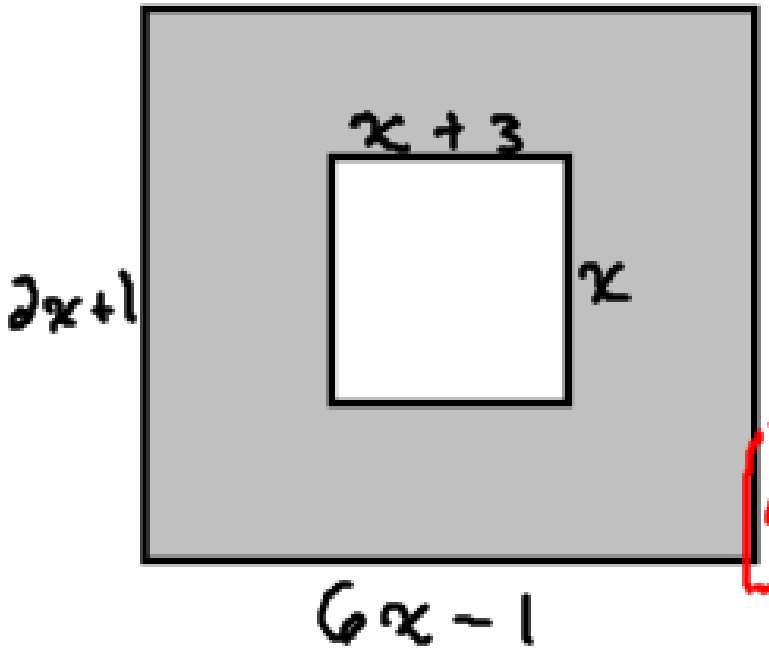
$P = 2l + 2w$

$P = 2(3x-2) + 2(2x+1)$

$P = 6x - 4 + 4x + 2$

$\boxed{P = 10x - 2}$

Find an expression for the shaded area



$A_{SHADED} = A_{BIG} - A_{SMALL}$

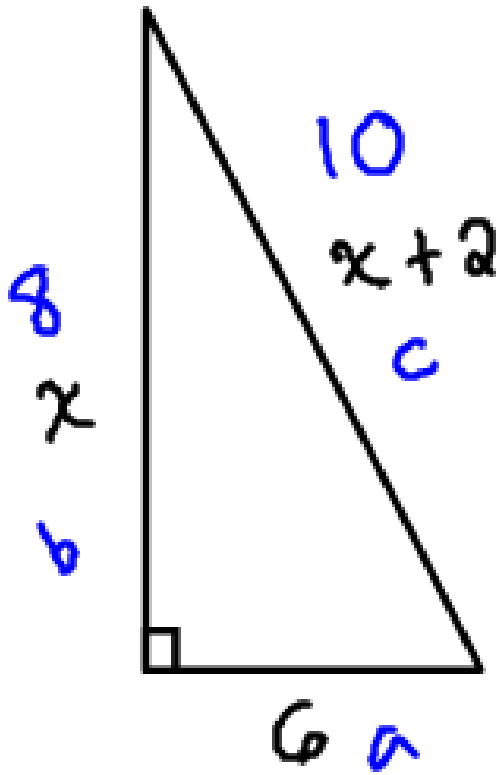
$= (2x+1)(6x-1) - (x+3)(x)$

$= [12x^2 - 2x + 6x - 1] - [x^2 + 3x]$

$= 12x^2 + 4x - 1 - x^2 - 3x$

$A = 11x^2 + x - 1$

Solve for 'x' given:



Pythagorean Theorem.

$$c^2 = a^2 + b^2$$

$$(x+2)^2 = 6^2 + x^2$$

$$(x+2)(x+2) = 6^2 + x^2$$

$$x^2 + 4x + 4 = 36 + x^2$$

$$-x^2 \qquad -x^2$$

$$4x + 4 = 36$$

$$-4 \qquad -4$$

$$\frac{4x}{4} = \frac{32}{4}$$

$$\boxed{x = 8}$$

Do p.186-187 - #15-18, 20