Warm-Up January 9, 2018

A. $(2x^2 + 4x - 3) + (2x^2 + 7x - 2)$

$2x^2 + 4x - 3 + 2x^2 + 7x - 2$

$(2x^2 + 2x^2) + (4x + 7x) + (-3 - 2)$

$4x^2 + 11x - 5$

B. $(-3x^2 + 5x - 3) - (7x^2 - 7x + 2)$

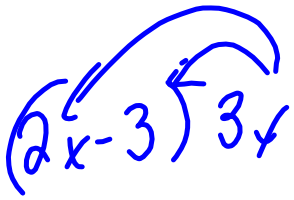
$-3x^2 + 5x - 3 - 7x^2 + 7x - 2$

$(-3x^2 - 7x^2) + (5x + 7x) + (-3 - 2)$

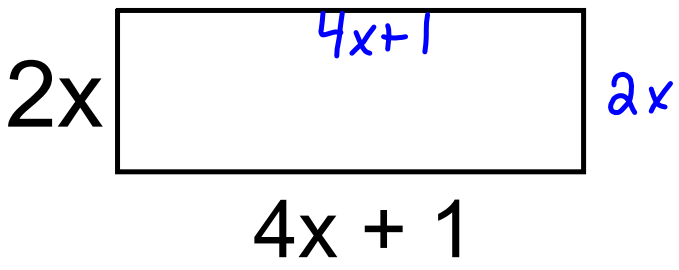
$-10x^2 + 12x - 5$

C. $3x(2x - 3)$

$6x^2 - 9x$



January 9, 2018



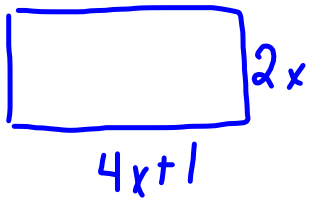
Add up sides!

Write an expression for the perimeter.

$P: s_1 + s_2 + s_3 + s_4$

$12x + 2$

Write an expression for the area.



$A = bh$

$2x(4x+1)$

$8x^2 + 2x$

BEDMAS

$x = 2$ find the area

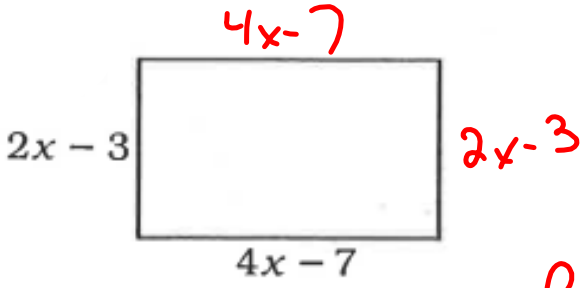
$8(2)^2 + 2(2)$

$8(4) + 4$

$32 + 4$

36

Find the perimeter...

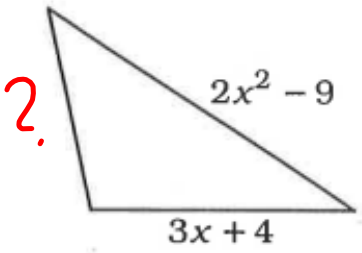


$P = S_1 + S_2 + S_3 + S_4$

$12x - 20$

Find the missing side...

2.



$P = 3x^2 - 2x - 5$

$\_\_ + 3 + 2 = 12$

have 2 sides

$2x^2 + 3x - 5$

$+1x^2$

$1x^2 - 5x + 2x^2 - 9 + 3x + 4 = 3x^2 - 2x - 5$

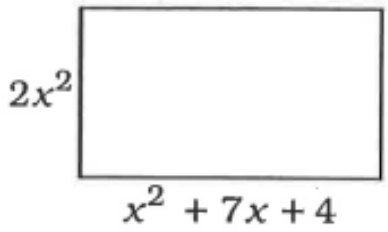
$2x+1$

$2x+2$ | $P: 2x+6$ | $2x+2$

$2x+1$

$P = 8x + 6$ find the unknown side

Find the area...



$A = bh$

$= 2x^2(x^2 + 7x + 4)$

$= 2x^4 + 14x^3 + 8x^2$

BEDMAS

Find the area if $x = 2$

$2x^4 + 14x^3 + 8x^2$

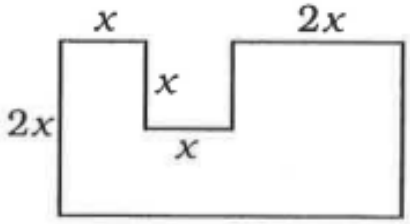
$2(2)^4 + 14(2)^3 + 8(2)^2$

$2(16) + 14(8) + 8(4)$

$32 + 112 + 32$

176

Find the area...



Area #1 $A = bh$

$= (x)(x)$

x^2

Area #2 $A = bh$

$= x(2x)$

$= 2x^2$

$A1 + A2 + A3$

$x^2 + 2x^2 + 4x^2$

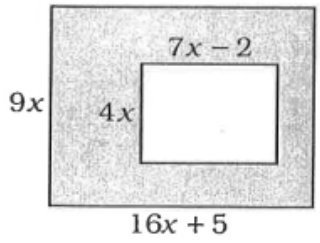
$7x^2$

Area #3 $A = bh$

$(1x)(4x)$

$= 4x^2$

Find the area of the shaded region...



[Area of Larger] − [Area of smaller]

[9x(16x+5)] − [4x(7x−2)]

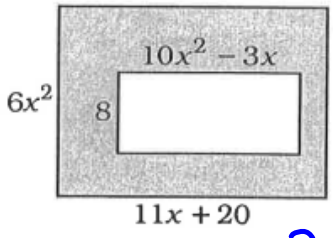
$(144x^2+45x) - (28x^2 - 8x)$

$144x^2+45x-28x^2+8x$

$144x^2-28x^2+45x+8x$

$116x^2+53x$

Find the area of the shaded region...



[Area of larger] - [Area of Smaller]

$[6x^2(11x+20)] - [8(10x^2-3x)]$

$[66x^3 + 120x^2] - [80x^2 - 24x]$

$66x^3 + 120x^2 - 80x^2 + 24x$

$66x^3 + 40x^2 + 24x$