Do Now

Simplify each expression

1) $(6x^2 + 2x - 8) - 1(3x^2 - 4x + 3)$

$6x^2 + 2x - 8 - 3x^2 + 4x - 3$

$3x^2 + 6x - 11$

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

$-x^3 + x^2 - 2x$

3) $7 + x^2(2x - 8) + 4x^3$

$7 + 2x^3 - 8x^2 + 4x^3$

$6x^3 - 8x^2 + 7$

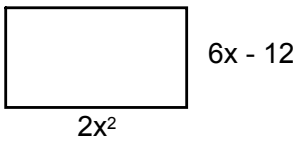
Mar 8-9:44 AM

HW Answers

1. $4a^3 + 3a^2$
2. $3h^5 - 5h^3$
3. $x^3 + 2x^2 - 5x$
4. $-3n^3 - 6n^2$
5. $-2c^5 + 4c^4 - 10c^3$
6. $2x^3y - 5xy^2$
7. $18b^2 + 2b + 8$
8. $12n^3 + 5n^2 - 19n$
9. $6m^2 + 6m - 3$
10. $28x^2 - 6x - 12$

Mar 16-10:17 AM

1)



A. Find the Area of the rectangle

$A = lw$

$A = 2x^2(6x-12)$

$A = 12x^3 - 24x^2$

B. Find the Perimeter of the rectangle if x = 3

$6x-12$

$6(3)-12$

$18-12$

6

$2x^2$

$2(3)^2$

$2(9)$

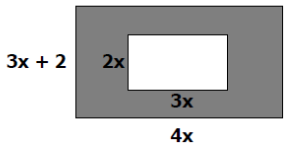
18

$P = 6+6+18+18$

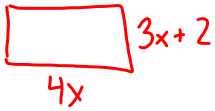
$P = 48$

Mar 6-6:34 AM

2)



A) Find the area of the larger rectangle

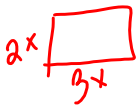


$A = lw$

$A = 4x(3x+2)$

$A = 12x^2 + 8x$

B) Find the area of the smaller rectangle



$2x(3x) = A$

$6x^2 = A$

C) Find the area of the shaded region

Shaded = Larger - Smaller

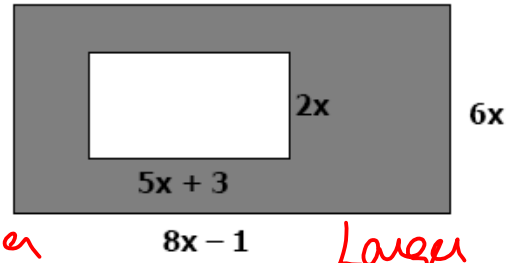
$12x^2 + 8x - (6x^2)$

$12x^2 + 8x - 6x^2$

$6x^2 + 8x$

Mar 9-6:49 AM

4) Find the area of the shaded region



Smaller

$2x(5x+3)$

$10x^2+6x$

Larger

$6x(8x-1)$

$48x^2-6x$

$48x^2-6x-(10x^2+6x)$

$48x^2-6x-10x^2-6x$

$38x^2-12x$

Sep 19-10:06 AM