

(binomial)(binomial) #3

$$(x - 3)(x + 3)$$

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

CANCELS OUT

$$x^2 - 9$$



(binomial)(trinomial)

$$(x + 2)(x^2 - 4x + 5)$$

$$\begin{array}{r} x^3 - 4x^2 + 5x + 2x^2 - 8x + 10 \end{array}$$

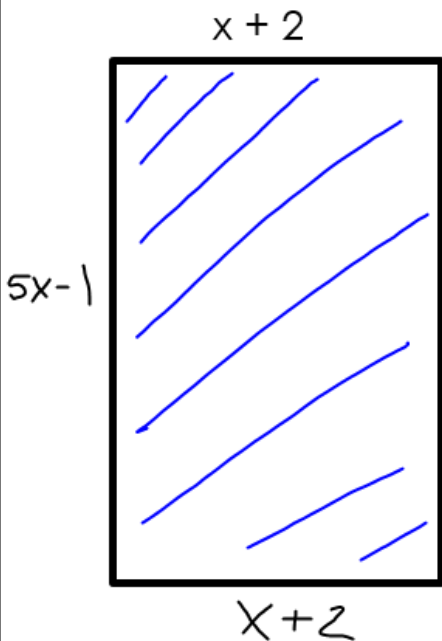
CHECK FOR LIKE TERMS

$$x^3 - 2x^2 - 3x + 10$$

★ REMEMBER: WHEN COMBINING LIKE TERMS, DO NOT CHANGE THE EXPONENT



Find the perimeter and the area of the following rectangle



PERIMETER: AROUND THE OUTSIDE OF A SHAPE. ADD

AREA: INSIDE OF A SHAPE. MULTIPLY

5x - 1
ALL 4 SIDES!

PERIMETER

$$\begin{array}{r} x+2 \\ 5x-1 \\ x+2 \\ 5x-1 \end{array}$$

$$P = 12x + 2$$

AREA
 ONLY 2
 SIDES

$$(x+2)(5x-1)$$

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

$$A = 5x^2 + 9x - 2$$



$$11) (4x^2 - 1)(8x - 1)$$

$$32x^3 - 4x^2 - 8x + 1$$

$$12) (7x - 5)(3x + 10)$$

$$21x^2 + 70x - 15x - 50$$

$$21x^2 + 55x - 50$$

$$9) (6x + 2)(2x^2 - 6x + 1)$$

$$12x^3 - 36x^2 + 6x + 4x^2 - 12x + 2$$

$$12x^3 - 32x^2 - 6x + 2$$

$$10) (x - 1)(x^3 + 2x^2 + 2)$$

$$x^4 + \cancel{2x^3} + 2x - 1x^3 - \cancel{2x^2} - 2$$

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

Polynomials- Perimeter Area Volume - Word

Hannah Oldham

1 2 3 4 5 6 7

$2x^3 + 6x$ $4x^3 - 5x$
 $6x^3 + x$

5. A garden has a length that is 5 feet longer than its width. Draw and label picture that represents the garden.

$x+5$

6. You want to build a fence around the garden to keep out rabbits. Write an expression that represents this. PERIMETER

$x+5 + x + x+5 + x$ $4x+10$

7. You decide to lay down a layer of tarp before filling the garden with soil. Write an expression that would represent this. (Hint: Would it be perimeter, area or volume?)

$(x+5)(x)$ $x^2 + 5x$ TARP

8. If $x = 2$, how much fencing will you need?

$4(2) + 10$ (PERIMETER)
 18 ft

9. Again, if $x = 2$, how many square feet of tarp will you need?

$(2)^2 + 5(2) = 14 \text{ ft}^2$ AREA

10. You go to the store to buy soil. Assuming that your garden will be 1.5 ft. tall, how much soil should you buy? (Hint: Would it be perimeter, area or volume?) FILL UP (3-DIMENSIONS)

14 ft^2 1.5 BASE \times h
 $14 \times 1.5 = 21 \text{ ft}^3$

Polynomials- Perimeter Area Volume - Word

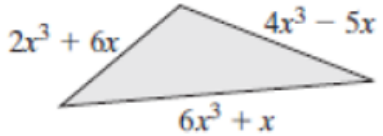
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Hannah Oldham

Name: _____ Date: _____

Writing polynomial expressions for Perimeter, Area and Volume

1. A square has a side length of $3x + 11$. What is the perimeter of the square?
2. What is the area of the square?
3. If we used that same square as a base to make a cube, what is the volume of the cube?
4. Find the perimeter of the object shown



5. A garden has a length that is 5 feet longer than its width. Draw and label picture that represents the garden

6. You want to build a fence around the garden to keep out rabbits. Write an expression

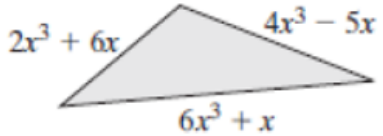
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Polynomials- Perimeter Area Volume - Word

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Name: _____ Date: _____

Writing polynomial expressions for Perimeter, Area and Volume

1. A square has a side length of $3x + 11$. What is the perimeter of the square?
 $12x + 44$
2. What is the area of the square?
 $(3x + 11)(3x + 11)$
 $9x^2 + 66x + 121$
3. If we used that same square as a base to make a cube, what is the volume of the cube?
4. Find the perimeter of the object shown

 $12x^3 + 2x$
5. A garden has a length that is 5 feet longer than its width. Draw and label picture that represents the garden
6. You want to build a fence around the garden to keep out rabbits. Write an expression

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