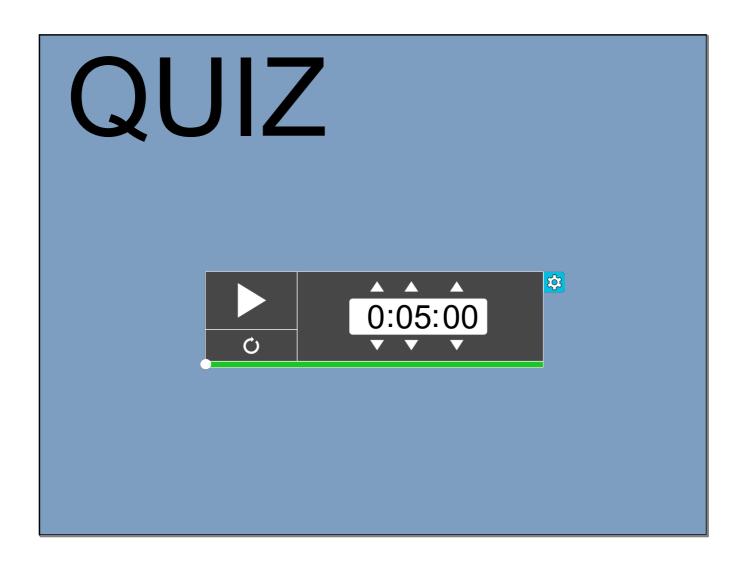
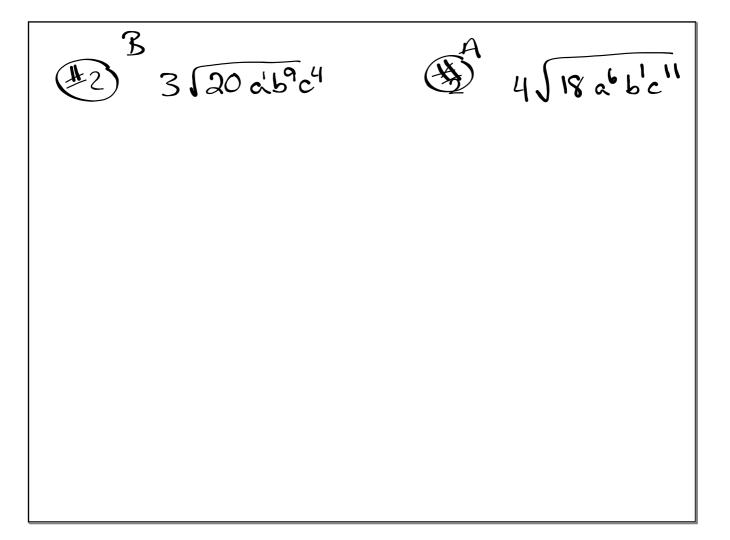


Radical Review	
$4\sqrt{27x^3y^2}$	$\sqrt{14} \bullet 6\sqrt{2}$
4,03 000 93	6528
12 xy \(3x	6V 4 ,7 12√7
$2\sqrt{45} - 2\sqrt{5}$	$\sqrt{7}(3-2\sqrt{7})$
	357 -2549
65-35	3/7 -14
45	

Rational/Irrational?	
$\sqrt{25}$	$\sqrt{3}(\sqrt{3}+2)$
Revrect Square	1 3tar3
2.689312	3.14
I non terminating	R terminating
$6\frac{1}{8}$ R Fraction	T not Perfect

(1)
$$-4\sqrt{216} \times^{2} y^{2} = -24 \times 4 \times 4 \times 5 = -24 \times 5 = -24$$





Adding

+ and **-**

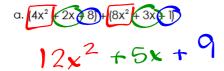
Subtracting

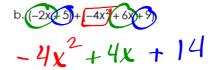
Polynomials

Adding Polynomials

When adding, use the following steps to add polynomials:

- Line up like terms
- Add
- Make sure final answer is in standard form





$$4x^2 - 6x + 19$$

d.
$$(2x^3 + x^2 - 5) + (2x + x^3)$$

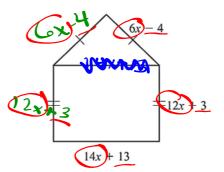
Application: Find an expression that represents the perimeter of the house.

What does it mean to find the perimeter of an object?

add up all sides

Perimeter of the house:

50x+11

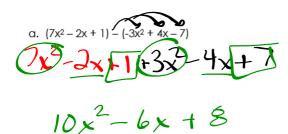


1

Subtracting Polynomials

Subtracting polynomials is similar to adding polynomials except we have to take care of the minus sign first. Subtracting polynomials require the following steps:

- Change the subtraction sign to addition and distribute the negative sign to every term in the 2nd polynomial.
- Line up like terms
- Add (Make sure final answer is in standard form)



2) Change signs 2.

3) CLT

b.
$$(3x^2+5x)^{-}[4x^2+7x-1]$$
 $3x^2+5x-4x^2-7x+1$
 $-x^2-2x+1$

c.
$$(5x^3 - 4x + 8) - (-2 + 3x)$$

 $5x^3 - 4x + 8 + 2 - 3x$

$$5x^3 - 7x + 10$$

e.
$$(8x + x^3 - 6) - (-10x + 7 - 2x^3 + 5x^2)$$

$$3-5x+3x^{2}-4x-2x^{2}+4$$

$$1x^{2}-4x+7$$

f.
$$(-7x^2 + 8x - 4) - (2 - 14x^2)$$

2

Practice

Algebra 1 Day 4 – Adding and Subtracting Polynomials

Polynomials and Radicals

Name: __

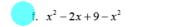
Practice

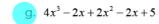
Practice Assignment

Date: ______ Block: ____

- 1. Classify the polynomials by degree and number of terms.
- a. $4x^2 5x$
- b.x + 2
- c. 12
- d. $5x^2 5x + 1$

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





- 2. Add the following polynomials. Make sure your final answer is in standard form.
- a. $(5x^2 4x + 7) + (8x^2 3x 9)$ b. $(4x + 5x^2 + 8) + (-2x^2 + 8)$
- 3. Subtract the following polynomials. Make sure your final answer is in standard form.

$$a.(2x-4)-(5x+7)$$

b.
$$(3x^2 - 3x - 5) - (2x^2 + x - 6)$$

c.
$$(4x^2 + 3x - 10) - (-4x^2 + 2x + 8)$$
 d. $(14x - 3x^2 + 2) - (3x + 4x^2 - 5)$

d.
$$(14x - 3x^2 + 2) - (3x + 4x^2 - 5)$$

4. Determine the missing values of m and n.



b.
$$(mx^2 - 8x + 3) - (6x^2 + nx - 4) = -2x^2 - 5x + 7$$

$$4+m=7$$
 $m=3$
 $2-n=5$
 $-x=7$
 $n=7$