3.11.20

At The Bell: PSSA: Write the polynomial in standard form.

Name the polynomial by degree and terms.

Information degree and terms.

3 $-6x^2 - 4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$ $4x + 5x + 4 - 13x^2 + 6x^5 - 2x^5$

Page 102 1. 2. 3. 4. 5. 6. (2t-1)(t+3)=07. 8. (2x-5)(x+1)=0 (2(2k-1))=0 (3b-5)(b+2)=0**9.** B **10.** F 11. A 12. E 13. N 14. T **TENNIS BALL** FACTORY REJECT

Solve each equation by factoring.

19)
$$(4a-7)(a-2)=0$$

20)
$$v^2 + 5v + 6 = 0$$

Solve each equation by factoring. (SHOW YOUR WORK!)

21)
$$3n^2 + 24n + 21 = 0$$

Computer capacity is often measured in bits and bytes. A bit is the smallest unit, which is a 1 or 0 in the computer's memory. A byte is 2^3 bits. A megabyte (MB) is 2^{20} bytes.

22) a) How many bits are in a megabyte? (Write the answer as a power of 2. SHOW YOUR WORK.)

b) A gigabyte (GB) is 2^{30} bytes. How many bits are ina gigabyte? (Write your answer as a power of 2. EXPLAIN YOUR PROCESS.)

Algebra 1 (Swanick)

Name

Unit 3 (Ch 7, 8, 9) Review

Date_____ Period____

Write the expression in expanded form.

1)
$$6x^4y^3$$

Simplify. Your answer should contain only positive exponents.

2)
$$(p^{-4}r^3 \cdot p^{-2}q^3)^0$$

3)
$$3m^{0} \cdot m^{4}$$

4)
$$2v^{-2}$$

Evalute the expression for x = 4 and y = 5.

5)
$$x^{-1}y$$

Simplify. Your answer should contain only positive exponents.

6)
$$4x^0y^{-1}$$

7)
$$3xy^3 \cdot x^3y^3$$

$$8) - \frac{3u^3v^2}{u^2v^3}$$

9)
$$(3u^4v^3)^2$$

Simplify.

10)
$$(6 + 8x^2 + 2x) + (8 + 4x^2 - 4x)$$

11)
$$(3x^4 + 8x^3 + x^2) - (2x^3 + 6x^2 + 8x^4)$$

Find each product.

12)
$$5k^3(6k^2-2k+6)$$

13)
$$(5v-6)(8v+3)$$

Factor the common factor out of each expression.

14)
$$42n^2 - 49n$$

Factor each completely.

15)
$$m^2 + 6m - 27$$

16)
$$a^2 - 4$$

17)
$$x^2 - 13x + 30$$

18)
$$x^2 - x - 56$$

Assignment: STUDY!

Solve each equation by factoring.

19)
$$(4a-7)(a-2)=0$$

20)
$$v^2 + 5v + 6 = 0$$

Solve each equation by factoring. (SHOW YOUR WORK!)

$$3(n^{2} + 8n + 7) = 0$$

$$3(n+7)(n+1) = 0$$

$$1 + 7 = 0$$

$$1 = -7$$

$$1 = 0$$

$$1 = -1$$

Computer capacity is often measured in bits and bytes. A bit is the smallest unit, which is a 1 or 0 in the computer's memory. A byte is 2^3 bits. A megabyte (MB) is 2^{20} bytes.

22) a) How many bits are in a megabyte? (Write the answer as a power of 2. SHOW YOUR WORK.)

$$2^{3} \cdot 2^{20} = 2^{3+20} = 2^{23}$$

b) A gigabyte (GB) is 2^{30} bytes. How many bits are ina gigabyte? (Write your answer as a power of 2. EXPLAIN YOUR PROCESS.)

$$2^{3} \cdot 2^{30} = 2^{3+30} = 2^{33}$$

Algebra 1 (Swanick)

Name

Unit 3 (Ch 7, 8, 9) Review

Date Period

Write the expression in expanded form.

1)
$$6x^4y^3$$

23 x x x x y y y

Simplify. Your answer should contain only positive exponents.

2)
$$(p^{-4}r^3 \cdot p^{-2}q^3)^0$$

3)
$$3m^0 \cdot m^4$$

4)
$$2v^{-2} \frac{2}{v^2}$$

Evalute the expression for x = 4 and y = 5.

5)
$$x^{-1}y = \frac{5}{4}$$

Simplify. Your answer should contain only positive exponents.

6)
$$4x^0y^{-1} \frac{4}{y}$$

7)
$$3xy^{3} \cdot x^{3}y^{3}$$

 $3x^{4}y^{6}$
9) $(3u^{4}v^{3})^{2}$
 $9u^{8}v^{6}$

$$8) - \frac{3u^3v^2}{u^2v^3} - \frac{3u}{v}$$

9)
$$(3u^4v^3)^2$$

 $9u^8v^6$

Simplify.

10)
$$(6 + 8x^2 + 2x) + (8 + 4x^2 - 4x)$$

 $12x^2 - 2x + 14$

11)
$$(3x^4 + 8x^3 + x^2) - (2x^3 + 6x^2 + 8x^4)$$

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

Find each product.

12)
$$5k^3(6k^2 - 2k + 6)$$

 $30k^5 - 10k^4 + 30k^3$

13)
$$(5v-6)(8v+3)$$

 $40v^2-33v-18$

Factor the common factor out of each expression.

14)
$$42n^2 - 49n$$

 $7n(6n - 7)$

Factor each completely.

15)
$$m^2 + 6m - 27$$

 $(m+9)(m-3)$

16)
$$a^2 - 4$$
 $(a+2)(a-2)$

17)
$$x^2 - 13x + 30$$
 $(x-10)(x-3)$

18)
$$x^2 - x - 56$$

 $(x+7)(x-8)$

Solve each equation by factoring.

19)
$$(4a-7)(a-2)=0$$
 $\left\{\frac{7}{4},2\right\}$

20)
$$v^2 + 5v + 6 = 0$$
 $\{-2, -3\}$

-1-