LUJE HAIIIC		Date:		
First Name	:	Grade		
			Practice Test 5	
	4	Algebra		
1) Sta	ate if the following polynomial express	sions are	monomials, binomials or trinomials.	
a)		b)		1
	$2x^2y^3$		$7x^9 - 8x^2 + 6$	
c)	Answer:	1)	Answer:	
	y ⁰	(d)	$2x^5 - 4x^4 + 6x^5$	
	Answer:		Answer: $2x^2 - 4x^3 + 6x^3$	
				1
2) ===	IID - BAYOR 44			
2) TR	UE or FALSE. All of the following are	e irratio	nal numbers. $\sqrt{2}$, $\sqrt{64}\sqrt{168}$	
2				
An	swer:			
a) D				
	termine the degree of the following pol			
3) Det	termine the degree of the following pole $(2x^2)^4$	lynomia b)	1 expressions. $5x^4 + 7$	
	$(2x^2)^4$		$5x^4 + 7$	
		b)	$5x^4 + 7$ Answer: degree =	
a)	$(2x^2)^4$ Answer: degree = $-6x^5(8x^3)$		$5x^4 + 7$	
a)	$(2x^2)^4$ Answer: degree =	b)	$5x^4 + 7$ Answer: degree =	
a)	$(2x^2)^4$ Answer: degree = $-6x^5(8x^3)$	b)	$5x^4 + 7$ Answer: degree = $-6 - 2x^8 - 7x^3$	
a) c)	$(2x^2)^4$ Answer: degree = $-6x^5(8x^3)$	d)	$5x^4 + 7$ Answer: degree = $-6 - 2x^8 - 7x^3$	
a) c)	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree =	d)	$5x^4 + 7$ Answer: degree = $-6 - 2x^8 - 7x^3$	
a) c) 4) Wri	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree =	d)	$5x^{4} + 7$ Answer: degree = $-6 - 2x^{8} - 7x^{3}$ Answer: degree =	
a) c) 4) Wri	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree = $\frac{1}{2}$ It each of the following as a power of	d)	$5x^4 + 7$ Answer: degree = $-6 - 2x^8 - 7x^3$	
a) c) 4) Wri	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree = $\frac{1}{2}$ It each of the following as a power of	d)	$5x^{4} + 7$ Answer: degree = $-6 - 2x^{8} - 7x^{3}$ Answer: degree =	
a) c) 4) Wri	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree =	b) d) 10.	$5x^4 + 7$ Answer: degree = $-6 - 2x^8 - 7x^3$ Answer: degree =	
a) c) 4) Wri	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree = $\frac{1}{2}$ It each of the following as a power of	b) d) 10.	$5x^4 + 7$ Answer: degree = $-6 - 2x^8 - 7x^3$ Answer: degree =	
a) c) 4) Wri	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree =	b) d) d) 10. b) 0.	$5x^{4} + 7$ Answer: degree = $-6 - 2x^{8} - 7x^{3}$ Answer: degree = $000 \ 0001 = \phantom{00000000000000000000000000000000000$	
a) c) 4) Wri	$(2x^{2})^{4}$ Answer: degree = $-6x^{5}(8x^{3})$ Answer: degree =	b) d) d) 10. b) 0. nd in sta	$5x^{4} + 7$ Answer: degree = $-6 - 2x^{8} - 7x^{3}$ Answer: degree = $000 \ 0001 = \phantom{00000000000000000000000000000000000$	

6) Simplify the following expressions (only positive exponents and calculated coefficients).

a)
$$(3x^{-1}y^4)^2 =$$

b)
$$(4a^6b^{-4}c)^3 =$$

7) Simplify the following algebraic expressions. If the equation is already in simplified form rewrite the statement in the space provided.

a)	$-x^2 - (3x^2 - 7)$	b)	$5x^{14}y^9 + 7x^9y^{14}$
	Answer:		Answer:
(c)	$xy \cdot xy \cdot xy$	d)	$-8x^6y^7z^5 + 16x^{11}y^{10}$
	Answer:		Answer:
e)	$-21x^5y^6 + 12x^3y^6$	f)	$\left(\frac{-25x^5}{15x}\right)^{-1}$
	Answer:		Answer:

8) Determine if the following statements are **true** or **false**. The entire word must be written.

a.	$\mathbb{N}\subseteq\mathbb{Q}$	b. −2156 ∈ ℚ
c.	$\mathbb{Q}\subseteq\mathbb{Q}'$	d. $\sqrt[3]{343} \in \mathbb{Q}$

9) Solve for the unknown variables (no decimals).

a)
$$-5x - 2 = -4x - 89$$

b)
$$-17x - 5x + 29 = 16 - 14x$$

Answer:____

Answer:____

10) Complete the following chart.

(a)	$x \ge -2$	-3 -2 -1 0 1 2 3 4	
(b)		-3 -2 -1 0 1 2 3 4	
(c)		-3 -2 -1 0 1 2 3 4] - ∞, 4[
(d)	$-1 \le x \le 2$	-3 -2 -1 0 1 2 3 4	

	~ 4 4		020	12 3	25
111	Consider	the	nol	momin	0.
III	Consider	uic	hor	ymonina.	19.

$$A = 5x^2 + 4x + 2$$
$$B = -3x^2 + 5$$
$$C = x - 4$$

Find.

a)	A + B - C
1	
	•
	Answer:
11	24.00
b)	3A -2B
	Answer:
c)	(A)(C)
٠,	(· 1/0)
	Anguari
	Answer:

12) Determine the area of the shaded region.

Remember to be clear and organized when showing all your work.

