Trigonometry

Trigonometry									
T-1	Ang	les in Stan	dard Positi	4	4.1				
				((Weighting - 1)				
Students will demonstrate an understanding of angles in standard position, expressed in degrees and radians.									
T-2,	Unit	t Circle, Tr	rigonometr	ic Ratios	4	1.2, 4.3			
T-3					(Weighting -3)		
					f the unit circle d in radians an	and solve prob d degrees	olems using		
T-4	Gı	aphing Tr	igonometri	ic Functions		5.1, 5.2, 5.3, 5.4 Weighting – 4)			
	ents w	ill graph an			()		
Stude	ents w	ill graph an			(Weighting – 4))		
Stude	ents w	ill graph an			(Weighting – 4))		
Stude	ents w	ill graph an			(Weighting – 4))		
Stude	nts w probl	ill graph an	d analyze tl	ne trigonome	tric functions si	Weighting – 4)	tangent to		
Stude solve T-5 Stude	nts w probl Trig	ill graph and ems	d analyze the damage of the da	ne trigonome	tric functions si	Weighting – 4) ane, cosine, and 4.4, 5.4	tangent to		
Stude solve T-5 Stude	nts w probl Trig	ill graph an ems	d analyze the damage of the da	ne trigonome	tric functions si	Weighting – 4) Ine, cosine, and 1.4, 5.4 Weighting – 4)	tangent to		

1 0	6 Trigonometric Identities					6.1, 6.2, 6.3, 6.4					
	G.					(Weighting – 4)					
	Stud	-	_	entities, using							
		-	ocal identit								
		-	nt identities								
			orean Ident	nues ouble-angle i	dontitios						
		• Sulli/u	Trefefice, d	l	T	1					
			•	L	L	•					
			D.	1.4	I T42						
					l Functions	10.1.10.0.10.0					
R-1	Ope	rations an	d Composi	tions of Fund		10.1, 10.2, 10.3					
	~					(Weighting – 3))				
					ding of operat	ions on, and					
	com	positions of	of, functions	S.							
R-2,	Trai	nslations, (Compressio	ons and Stret	tches,	1.1, 1.2, 1.3					
R-3,			Reflections		· ·	(Weighting – 5)					
R-4,		,									
R-5											
					1						
Stude	nts wi	11									
•			understand	ling of horize	ontal and vertic	cal translations o	on the graphs				
				•		ar translations	on the graphs				
	of functions and their related equations.										
_	dam	anatuata an	• demonstrate an understanding of horizontal and vertical compressions on the								
•				•	notion -						
	grap	hs of funct	tions and th	eir related eq							
•	grap sket	ohs of funct ch the grap	tions and the	eir related equection y – k =	= af(b(x – h))						
	grap sket writ	ohs of funct ch the grap e the equat	tions and the hor of the fur ion of a fun	eir related equation $y - k = 0$	= af(b(x - h)) ts graph which	n is a translation					
	grap sket writ com	ohs of functions of the graps e the equation of the equation of the second of the seco	tions and the fur ion of a fun fur stretch of the s	eir related equation $y - k = 0$ action, given in the function	= af(b(x - h)) ts graph which $ y = f(x)$		ı,				
	grap sket writ com	ohs of functions of the graps e the equation of the equation of the second of the seco	tions and the fur ion of a fun fur stretch of the s	eir related equation $y - k = 0$ action, given in the function	= af(b(x - h)) ts graph which $ y = f(x)$	n is a translation he x-axis, y-axi	ı,				
	grap sket writ com	ohs of function the grape the equation of the	tions and the fur ion of a fun fur stretch of the s	eir related equation $y - k = 0$ action, given in the function	= af(b(x - h)) ts graph which $ y = f(x)$		ı,				
	grap sket writ com dem	ohs of function the grape the equation of the	tions and the fur ion of a fun fur stretch of the s	eir related equation $y - k = 0$ action, given in the function	= af(b(x - h)) ts graph which $ y = f(x)$		ı,				
	grap sket writ com dem	ohs of function the grape the equation of the	tions and the fur ion of a fun fur stretch of the s	eir related equation $y - k = 0$ action, given in the function	= af(b(x - h)) ts graph which $ y = f(x)$		ı,				
	grap sket writ com dem	ohs of function the grape the equation of the	tions and the fur ion of a fun fur stretch of the s	eir related equation $y - k = 0$ action, given in the function	= af(b(x - h)) ts graph which $ y = f(x)$		ı,				

R-6	Inve	erses		1.4 (Weighting – 1)							
	(House I)										
Stude	nts w	ill demonst	rate an unde	erstanding of	inverses of re	lations.					
R-7/8	Ur	nderstandi	ng Logaritl	hms/ Laws o	f Logarithms		8.1, 8.3 (Weighting – 3)				
Stude	nts w	ill					,				
•	exp	lain the rela	ationship be	tween logarit	thms and expo	onents					
•	-	_	-		-	xpression and vi	ce versa				
•					ited value of a	C					
•			understand	ling of the pro	oduct, quotier	t, and power lav	vs of				
	ioga	arithms									
						L	l				
R-9	Gra	phing Loga	arithmic aı	nd Exponent	ial Functions	7.2, 8.2					
						(Weighting -	- 2)				
G. 1		.11 1	1 1 1		1	C .:					
Stude	nts w	III grapn an	d analyze id	ogarithmic an	d exponential	Tunctions					
R-10	L.	nonontial a	nd Lagarit	hmia Egyati	ong and	7.3, 8.4					
1						7.5, 6.4 (Weighting – 5)	·				
						powers of one a					
		-		-		not powers of o	ne another				
				_	thmic equatio						
Stude	nts w	iii soive pro	odiems invo	orving logarith	nms and expor	nentials					

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R-11	Fa	ctoring Po	lynomials	3.2, 3.3			
				(Weighting - 2)			
	1				1		
Student	ts w	ill factor po	olynomials o	of degree gre	ater than 2		
Student	C D V V.	in ractor po	ory morning v	or degree gree			
R-12	Cne	nhing Dol	ynomial Fu	ınations		3.1, 3.4	
K-12	Gra	apining For	ynonnai Ft	incuons			\
C ₁ 1		.11 1	1 1	1 '16		(Weighting - 3))
Studen	ts w	ill graph an	d analyze p	olynomial fu	nctions		
			•	•	•		
R-13	Gr	anhing Rag	dical Funct	ions		21 22 23	
R-13	Gra	aphing Rac	dical Funct	ions		2.1, 2.2, 2.3 (Weighting – 4)	<u> </u>
					one	2.1, 2.2, 2.3 (Weighting – 4))
				ions adical function	ons)
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Student	ts w	ill graph an	d analyze r	adical functio	ons	(Weighting – 4)	
	ts w	ill graph an		adical functio	ons	(Weighting – 4) 9.1, 9.2, 9.3	
Student	Gr	ill graph an	d analyze ra	adical function		(Weighting – 4)	
Student	Gr	ill graph an	d analyze ra	adical functio		(Weighting – 4) 9.1, 9.2, 9.3	
Student	Gr	ill graph an	d analyze ra	adical function		(Weighting – 4) 9.1, 9.2, 9.3	
Student	Gr	ill graph an	d analyze ra	adical function		(Weighting – 4) 9.1, 9.2, 9.3	
Student	Gr	ill graph an	d analyze ra	adical function		(Weighting – 4) 9.1, 9.2, 9.3	

Permutations, Combinations and Binomial Theorem

P-1/2/3	Fundamenta	l Counting	11.1, 11.2							
	Permutation	s and Comb	binations	(Weighting – 3)						
Students	Students will apply the fundamental counting principle to solve problems									
Students	Students will determine the number of permutations of n elements taken r and a time to									
solve pro	blems.									
Students	will determin	e the numb	er of combina	ations of n dif	ferent elements	taken r and a				
time to so	olve problems	.								
P-4 Bi	nomial Theor	rem			11.3					
					(Weighting - 2))				
Students will expand powers of binomial in a variety of ways										