Name:			D	ate:		75 Applications in vertex form
D	ah an ta i			d in order to an	cwer each au	estion. Then, answer the question.
Remer	noer to 1	ndicate which	point(s) you need	In order to an	swer caen qu	the horizontal distance in
1.	centime	eters and it is u	ie corresponding	norgin in com	-0.073d(d-33) meters.	) where d is the horizontal distance in
a)	How fa	r can a flea jur	np? I need th	e x-int.		22
	d=D	d=33	The file	e can jum	p up to	33 cm
b)	Mr. Ma	agoo started a f	lea circus and se	t up a high bar	jump that is 1	5 centimeters off the ground. Can the
-/	flea ma	ke it over the l	nigh bar? Explair	ı. //	-)/165-	bar because its max height when jumping is approx. 19.87cm
	1 new	the y par	+ or vertex	=-,073(14		were the 15cm high
		0+33 = 16.	5	073(16	.5)(-16.5	) La base it mar
		2 a.os.	+ X=lb.5	0/11 2 - 1	9 87425	Dar Decause 113 moing is
				1(16.5)-1	1.07	height was January
c)	How lo	ong is the flea i	n the air?	1.		approx. 12.0/C/1
	Lamo	t be determ	ninal because	time		
,	s not	a trariable i	n this problem	We do not		
j	lave er	pughinfo to	determine		isa Ita tr	piectory can be mapped by the
2.				es a hunter by s	urprise. Its ud	ejectory can be mapped by the are measured in feet.
	2007 <b>6</b> 0	1 / 1) - //	I W// - I I I. WIN	010 11 (	P 1912	
	a) Ho	w high did the	wolf jump? I no	rd y-part	7	Twent to answer b first for the The wolf jumped  The wolf jumped  The wolf jumped  The wolf after it lands?  The was 9 ff away from  The wolf after it looked
	11+	121276	1/1)=-	16-8) (6-1	1)	The wolf jumper
	2	2	11(6)	1/2/1-5)	h/6)=5	45 feet high
		a.0.5 7 x 2	h(le)-	(-)(-s)	how far is l	ne from the wolf after it lands?
	b) If the	he hunter was	originally 20 feet	from the bushe	o The	the was 9 ff away from the was after it lorded
	N	ked x-int	d-1=0	21-11	> Line	the welf after it lorded
			d=1	( Jan	120-4-9	the reak and the ground t
		:- thrown from		The C	lictance in fe	et, between the rock and the ground
3.	cocond	callel it is the				11 ' 1
	Beer	u the huild	ding that the rock $(5/6)$ $(5/6)$ $(5/6)$	was thrown of	7 1 need	the y-int Wing was 9568 ft tall
a)	How ta	-16 (5(0)-	20) (5(0) 423	12/201	The buil	ding was 4000 ft fall
	h/6)	- 461-26	)(23) hla	12 4568 77	23.2	
<b>b</b> )	When	did the rock hit	the ground? In	ced X-10T	It too	k 5.2 seconds for the
b)	5t-	26 20	5t=-23 /1 h	ave. time	rock to	hit the ground
	4-	26 01 5.2	# = 3 con ne	gative reped x	part of vor	tex , , m
c)	When	fid the rock rea	ch its nighest por	2 1/18	and for	the rock to realish its
-/	136 -	E) 23	It too!	L point		
	9	シュラる	high	ST P		to 5.2 seconds for the hit the ground tex the rock to reall its