V	CIM
- R	Sarah Magno
STAI	Dr. Z, History of Math
	10/17/21
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\ \ \ \ \ \	Homework for Lecture 11-OK to post
	DLet x=u+v. Plugging in for x, we obtain
2	
A*	$(u+v)^3 - 9(u+v) - 28 = 0$
IN*	
一 本	Francisco
$->$ \star $-$	Expanding,
-11	$u^{3}+3u^{2}v+3uv^{2}+v^{3}-9(u+v)-28=0$
	u + 3u + 3u + 1 - 1(u + v) - 20 - 0
	We rewrite this as
_r;	
	$u^{3} + v^{3} + (3u^{2}v + 3uv^{2} - 9(u+v)) - 28 = 0$
FIVE	Factoring, we obtain
正人	
	$u^3 + v^3 + 3uv(u+v) - 9(u+v) - 28 = 0$
2	$u^3 + v^3 + (u+v)(3uv-9) - 28 = 0$
FIVE STAR	
is *	We make it so that 3uv-9=0. This means that
H*	
-CX	uv=3
-	Thus u3 v3 = 27.
	my d V = 21.
	N.1 2 1 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2
- 1	Returning to the original equation, we see that $u^3 + v^3 = 28$







