ÂE	Unknown Variable

Name _____

Score

DP:26

1)	Find the value of w that makes the expression $h^5 - h^4 - wh^3 - 2h^2 + 7h - 3$ divisit by $h - 3$.	

2) Find the value of p that makes the expression $6x^2 + 37x + p$ divisible by 3x + 5.

3) Find the value of k that makes the expression $u^3 + ku^2 + 7u - 12$ divisible by u - 4.

4) Find the value of y that makes the expression $4n^4 - yn^3 + n^2 - 20n + 10$ divisible by 2n - 1.

5) Find the value of t that makes the expression $5b^2 + tb - 42$ divisible by 5b - 6.

	Unknown Variable	Name	
	Answer key	DP:26	
1)	Find the value of w that makes the expression h ⁵ – h ⁵ by h – 3.	⁴ – wh ³ – 2h ² + 7h – 3 divisible	
	w = 6		
2)	Find the value of p that makes the expression $6x^2 + 3$	37x + p divisible by 3x + 5.	
	p = 45		
3)	Find the value of k that makes the expression $u^3 + ku$	u² + 7u – 12 divisible by u – 4.	
	k = -5		
4)	Find the value of y that makes the expression $4n^4 - y$ by $2n - 1$.	vn ³ + n ² – 20n + 10 divisible	
	y = 4		
5)	Find the value of t that makes the expression $5b^2 + t$	b – 42 divisible by 5b – 6.	
	t = 29		

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