Set 2 - Homework

Name:			
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Theorem. Let a, b be positive integers. Then gcd(a, b) is the smallest positive integer g that can be written

(1) Verify that the theorem above is true for (a, b) = (6, 10).

as g = ax + by for some integers x and y.

(2) Explain why the gcd of any two consecutive Fibonacci numbers is 1.

(3)	Suppose	that a nu	mber a has	s exactly :	3 divisors.	Show	that a r	nust be	the sq	uare of a	a prime n	umber.