Google. Hasse-Minkowski Principle Amy Noether

Le Vegue (fumamentals) for proof of Dirichlet Thm. Weierstrass Theorem Proof.

For Friday: finish Ch 3, read sums of four squares packet

 \times normal \Rightarrow $N \times$ normal.

The even w_{ℓ} α .

Think about x2+ Zy2+ 422-6xy==1

Suggestion: Show $\frac{P}{P} = [0, \infty)$ (exercise)

Math Sci Net (mendes-Frantz solution)

Ciouville numbers:

uneantable

Dense

O meron

topologically large

Def: SER is dense Gs if, besides being dense, it contains (sometimes equals) ~Gn where Gn we dense topen in R.

Provide: voriou Liouville #5 me dense G8

exercise: Verify Liouville #5 me dense G8

Find out: Roth Theorem on approximation of algebraic#s.

exacise: Champernowne's # is transcendental but not Crouville

$$(n+1)^{2} + n^{2} = c^{2}$$

$$2n^{2} + 2n + 1 = c^{2}$$

$$4n^{2} + 4n + 1 - 2c^{2} = -1$$

$$(2n+1)^{2} - 2c^{2} = -1$$

$$n = x^2 + 3y^2 Do mod 3$$