



Th 2.5

Th 2.6

$R[x]$

$R[x, y]$

$D[x]$

$D[x, y]$

$\begin{cases} U[x] \\ E[x] \end{cases}$

$\begin{cases} U[x, y] \\ E[x, y] \\ F[x, y] \end{cases}$

$F[x]$

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Why is  $\mathbb{Z}[x]$  not a Euclidean domain?