

## **coprime-equiv-unique**<sup>11,40</sup>

$\forall p, q, a, b: \mathbb{Z}.$   
 $\text{coprime}(p; q)$   
 $\Rightarrow \text{coprime}(a; b)$   
 $\Rightarrow ((p * b) = (a * q))$   
 $\Rightarrow ((p < 0) \iff (a < 0))$   
 $\Rightarrow ((q < 0) \iff (b < 0))$   
 $\Rightarrow \text{guard}(((p = a) \wedge (q = b)))$