

## **gcd\_reduce\_property**<sup>11,40</sup>

$\forall p, q: \mathbb{Z}.$

spreadn(gcd\_reduce( $p$ ;  $q$ );

$g, a, b, ((p = (a * g)) \wedge (q = (b * g)) \wedge \text{coprime}(a; b) \wedge ((p * b) = (a * q))))$