Quasi-affine schemes

For which of the following rings is (6,15) a point of the Z-quasi affine scheme $A(x, y \ ; \ ; \ x, y)$?

Note that \mathbb{Z}_n is the ring $\mathbb{Z}[x]/\langle nx-1\rangle$ for a non-negative integer n.

(Hint: Use patching or use the definition directly.)

1. \mathbb{Z} 2. \mathbb{Z}_2 3. \mathbb{Q} 4. \mathbb{Z}_3 5. \mathbb{Z}_6 6. \mathbb{Z}_5 7. \mathbb{Z}_0

We want a ring in which $\langle 6, 15 \rangle$ is the unit ideal.

Note that $\langle 6, 15 \rangle$ is the ideal $\langle 3 \rangle$ in \mathbb{Z} .

The image of this ideal is the unit ideal *only* in the rings \mathbb{Q} , \mathbb{Z}_3 and \mathbb{Z}_6 and \mathbb{Z}_0 . (Note that $\mathbb{Z}_0 = \{0\}$!)