$$u_1 = (2x_2+1)z_{1|2} + (-\Delta_2+\Delta_1+1)x_2$$
$$u_2 = (2x_1+1)z_{1|2} + (-\Delta_2+\Delta_1+1)x_1$$

$$\Rightarrow \; z_{1|2} = \frac{1}{(2x_2+1)}\left[u_1 - (-\Delta_2+\Delta_1+1)x_2\right] \quad (*1)$$

$$\Leftrightarrow \; z_{1|2} = \frac{1}{(2x_1+1)}\left[u_2 - (-\Delta_2+\Delta_1+1)x_1\right] \quad (*2)$$

with: $u_1 = 1 \quad \Delta_1 = \{1\}$ and $u_1 = 2 \quad \Delta_1 = \{1,2\}$

(*1): $z_{1|2}(u_1=1, \Delta_1=1) = \frac{1}{5}\left[1 - (-\Delta_2+1+1)\cdot 2\right]$

$\Delta_2 = \{1,2,3,4\}$

$\lceil \; \rceil, \lfloor \; \rfloor$ solutions

$$= \frac{1}{5}\left[1 - (-\Delta_2+2)\cdot 2\right]$$

$$= \frac{1}{5}\left[1 + 2\Delta_2 - 4\right]$$

$$\boxed{z_{1|2}(u_1=1, \Delta_1=1) = \frac{1}{5}\left[2\Delta_2 - 3\right]}$$

$z_{1|2}=0 : \Delta_2=1$
$z_{1|2}=0 : \Delta_2=2$
$z_{1|2}=0 : \Delta_2=3$
$z_{1|2}=1 : \Delta_2=4$

$\Delta_2=1: \; z_{1|2} = -\frac{1}{5}$
$\Delta_2=2: \; z_{1|2} = \frac{1}{5}$
$\Delta_2=3: \; z_{1|2} = \frac{3}{5}$
$\Delta_2=4: \; z_{1|2} = \frac{5}{5} = 1$

$$z_{1|2}(u_1=2, \Delta_1=1) = \frac{1}{5}\left[2 - (-\Delta_2+1+1)\cdot 2\right]$$

$$= \frac{1}{5}\left[2 + 2\Delta_2 - 4\right]$$

$$\boxed{z_{1|2}(u_1=2, \Delta_1=1) = \frac{1}{5}\left[2\Delta_2 - 2\right]}$$

$z_{1|2}=0 : \Delta_2=1$
$z_{1|2}=0 : \Delta_2=2$
$z_{1|2}=0 : \Delta_2=3$
$z_{1|2}=1 : \Delta_2=4$

$\Delta_2=1: \; z_{1|2} = \frac{0}{5} = 0$
$\Delta_2=2: \; z_{1|2} = \frac{2}{5}$
$\Delta_2=3: \; z_{1|2} = \frac{4}{5}$
$\Delta_2=4: \; z_{1|2} = \frac{6}{5}$

$$z_{1|2}(u_1=2, \Delta_1=2) = \frac{1}{5}\left[2 - (-\Delta_2+2+1)\cdot 2\right]$$

$$= \frac{1}{5}\left[2 + 2\Delta_2 - 6\right]$$

$$\boxed{z_{1|2}(u_1=2, \Delta_1=2) = \frac{1}{5}\left[2\Delta_2 - 4\right]}$$

$z_{1|2}=0 : \Delta_2=1$
$z_{1|2}=0 : \Delta_2=2$
$z_{1|2}=0 : \Delta_2=3$
$z_{1|2}=1 : \Delta_2=4$

$\Delta_2=1: \; z_{1|2} = -\frac{2}{5}$
$\Delta_2=2: \; z_{1|2} = \frac{0}{5} = 0$
$\Delta_2=3: \; z_{1|2} = \frac{2}{5}$
$\Delta_2=4: \; z_{1|2} = \frac{4}{5}$