

Pensieve Header: Around  $\Theta$ .

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SetDirectory["C:\\drorbn\\AcademicPensieve\\2012-01"];
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<< betaCalculus.m
```

```
(R[1, 1, 1/2] // d $\Delta$ [1, 1, 2] //  $\beta 2\alpha$  // FullSimplify) /. Log[Exp[x_]]  $\Rightarrow$  x //  $\beta$ Form
```

$$\begin{pmatrix} W[1] & h[1] & h[2] \\ t[1] & \frac{1}{2} & \frac{1}{2} \\ t[2] & \frac{1}{2} & \frac{1}{2} \end{pmatrix}$$

```
(R[1, 1, -1/2] //  $\beta 2\alpha$  // FullSimplify) /. Log[Exp[x_]]  $\Rightarrow$  x //  $\beta$ Form
```

$$\begin{pmatrix} W[1] & h[1] \\ t[1] & -\frac{1}{2} \end{pmatrix}$$

```
((R[1, 1, 1/2] // d $\Delta$ [1, 1, 2]) ** R[1, 1, -1/2] //  $\beta 2\alpha$  // FullSimplify) /.  
Log[Exp[x_]]  $\Rightarrow$  x //  $\beta$ Form
```

$$\begin{pmatrix} W[1] & h[1] & h[2] \\ t[1] & -\frac{e^{-\frac{c[1]}{2}} c[2] \left( e^{\frac{c[1]}{2}} c[1] - e^{\frac{c[1]}{2} + \frac{c[2]}{2}} c[1] - c[2] + e^{\frac{c[1]}{2}} c[2] \right)}{2 \left( -1 + e^{\frac{c[2]}{2}} \right) c[1] (c[1] + c[2])} & \frac{1}{2} \\ t[2] & \frac{e^{-\frac{c[1]}{2}} \left( -1 + e^{\frac{c[1]}{2} + \frac{c[2]}{2}} \right) c[2]}{2 \left( -1 + e^{\frac{c[2]}{2}} \right) (c[1] + c[2])} & \frac{1}{2} \end{pmatrix}$$