$$(\langle c, 1 \rangle, 2)$$

$$as_{A+B,C,D}$$

$$(A + B) + (C + D)$$

$$as_{A,B,C+D}$$

$$(\langle c, 2 \rangle, 1 \rangle \quad ((A + B) + C) + D$$

$$as_{A,B,C} + Id_{D} \downarrow \qquad \uparrow Id_{A} + as_{B,C,D}$$

$$(A + (B + C)) + D$$

$$as_{A,B+C,D}$$

$$(A + (B + C)) + D$$

$$as_{A,B+C,D}$$

$$(\langle (c, 2 \rangle, 2 \rangle, 1 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 \rangle \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 ) \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 ) \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 ) \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 ) \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1 \rangle, 2 ) \vdash \qquad \downarrow (\langle (c, 2 \rangle, 1$$