

Task1

$$((\lambda a.(\lambda b.b\ b)\ (\lambda b.b\ b))\ b)\ ((\lambda c.(c\ b)\ (\lambda a.a))) \rightarrow_{\beta}$$

$$((\lambda b.b\ b)\ (\lambda b.b\ b))\ ((\lambda c.c\ b)\ (\lambda a.a)) \rightarrow_{\beta}$$

$$((\lambda b.b\ b)\ (\lambda b.b\ b))\ ((\lambda a.a)\ b) \rightarrow_{\beta}$$

$$((\lambda b.b\ b)\ (\lambda b.b\ b))\ b$$

Task2

$$S\ K\ K =$$

$$(\lambda x\ y\ z.x\ z\ (y\ z))(\lambda x\ y.x)(\lambda x\ y.x) \rightarrow_{\beta}$$

$$\lambda z.(\lambda x\ y.x)\ z((\lambda x\ y.x)\ z) \rightarrow_{\beta}$$

$$\lambda z.z = I$$