

(factorial 6)

(\* 6 (factorial 5))

(\* 6 (\* 5 (factorial 4)))

(\* 6 (\* 5 (\* 4 (factorial 3))))

(\* 6 (\* 5 (\* 4 (\* 3 (factorial 2)))))

(\* 6 (\* 5 (\* 4 (\* 3 (\* 2 (factorial 1)))))

(\* 6 (\* 5 (\* 4 (\* 3 (\* 2 1)))))

(\* 6 (\* 5 (\* 4 (\* 3 2))))

(\* 6 (\* 5 (\* 4 6)))

(\* 6 (\* 5 24))

(\* 6 120)

720