# 1  Basic Functions

$$g(a) = g(b)$$
$$f(a) = g(h(c))$$
$$h(c) = \sin a^2$$
$$\sin f(a)$$

# 2  Trigonometric functions

$$\sin a + \tan b$$
$$\sin a \cos b \neq \sin(a \cos b)$$
$$\sin 2\pi \neq \log 2x^2$$

# 3  Probability functions

$$p(x, y | \Theta)$$
$$p(y | x, \Theta)$$

# 4  Missing arguments

$$fgh$$
$$fgha$$

# 5  Operator-like functions

$$FGH$$
$$FGHa$$
$$f'(a) = a^2$$
$$f^2(a) = g^b(2)$$

# 6  Scripts

$$\ln a = \log_e a = \ln_+ b$$