1.
$$m_1(\mu) = Normal(\mu \mid 0, 10^2)$$

3.
$$m_3(\mu) = m_1(\mu) = Normal(\mu \mid 0, 10^2)$$

10.
$$m_{10}(\sigma^2) = Inverse-Gamma(\sigma^2 \mid 1, 1)$$

8.
$$m_8(\sigma^2) = m_{10}(\sigma^2) = Inverse-Gamma(\sigma^2 \mid 1, 1)$$

6.
$$m_6(x) = 1$$

5.
$$m_5(x) = \int_0^\infty \int_0^\infty factor \times m_3(\mu) \ m_8(\sigma^2) \ d\mu \ d\sigma^2$$

$$= \int_0^\infty \int_0^\infty Normal(x \mid \mu, \sigma^2) \ Normal(\mu \mid 0, 10^2) \ Inverse-Gamma(\sigma^2 \mid 1, 1) \ d\mu \ d\sigma^2$$

$$= \int_0^\infty Normal(x \mid 0, \sigma^2 + 10^2) \ Inverse-Gamma(\sigma^2 \mid 1, 1) \ d\sigma^2$$

(Can't perform integral.)

4.
$$m_4(\mu) = \int_0^\infty \int_{-\infty}^\infty factor \times m_6(x) \ m_8(\sigma^2) \ dx \ d\sigma^2$$

$$= \int_0^\infty \int_{-\infty}^\infty Normal(x \mid \mu, \sigma^2) \ Inverse-Gamma(\sigma^2 \mid 1, \ 1) \ dx \ d\sigma^2$$

$$= 1$$

2.
$$m_2(\mu) = m_4(\mu) = 1$$

7.
$$m_7(\sigma^2) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} factor \times m_6(x) \, m_3(\mu) \, dx \, d\mu$$
$$= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} Normal(x \mid \mu, \sigma^2) \, Normal(\mu \mid 0, 10^2) \, dx \, d\mu$$
$$= 1$$

9.
$$m_9(\sigma^2) = m_7(\sigma^2) = 1$$

