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1.

(1)

$$\begin{cases} (m+n)x + 26y = 2 \\ 8x + (m^2 - mn + n^2)y = 4 \end{cases}$$

$$\frac{m+n}{8} = \frac{26}{m^2 - mn + n^2} = \frac{2}{4}$$

∴ (1/2)

$$\frac{m+n}{8} = \frac{1}{2} \rightarrow m+n=4 \rightarrow m=4-n$$

$$\frac{26}{m^2 - mn + n^2} = \frac{1}{2} \rightarrow m^2 - mn + n^2 = 52$$

$$(4-n)^2 - (4-n)n + n^2 = 52$$

$$16 - 8n + n^2 - 4n + n^2 + n^2 = 52$$

$$3n^2 - 12n - 36 = 0 \quad /:3$$

$$n^2 - 4n - 12 = 0$$

$$n_1 = 6 \rightarrow m = -2$$

$$n_2 = -2 \rightarrow m = 6$$