NEW FORMULA 3.322.1

The original formula is

$$\int_u^\infty e^{-x^2/4\beta-\gamma x}\,dx = \sqrt{\pi\beta}\,e^{\beta\gamma^2}\,\left[1-\operatorname{erf}\left(\frac{u}{2\sqrt{\beta}}+\sqrt{\beta}\gamma\right)\right]$$

The change of variables $x = 2\sqrt{\beta}t$ and replacing $u/2\sqrt{\beta}$ by u and $\sqrt{\beta}\gamma$ by a (and going back to x as the integration variable) gives the new formula

$$\int_u^\infty e^{-x^2-2ax}\,dx = \frac{\sqrt{\pi}}{2}e^{a^2}\,\left[1-\operatorname{erf}(u+a)\right]$$