$$\int (\alpha x^2+\beta)^\mu \, x \, dx$$

$$(\mu \neq -1)$$

S(ax^2+b)^u*xdx=S(ax^2+b)^u*d(x^2/2)=
=½*S(ax^2+b)^u*d(x^2)=½*S(ax^2+b)^u*1/a*d(ax^2+b)=
=[t=ax^2+b]=1/2a St^u*dt=1/2a t^(u+1)/(u+1)+C=
= (ax^2+b)^(u+1)/(2au+2a)+C