

## U Got This

Make the nasty integrand pretty. Then report the result in terms of  $x$ .

1.  $\int x(x-5)^{10} dx$

$u =$

$du =$

$\int f(u) du =$



2.  $\int \frac{x}{x-3} dx$

3.  $\int \frac{x}{\sqrt{x-100}} dx$

4.  $\int \frac{x}{\sqrt[3]{x-2}} dx$

5.  $\int \sqrt[5]{(3x+2)}(3x+2) dx$

6.  $\int 49x(7x+25)^8 dx$