

Integral quiz more practice:

Find/evaluate the integrals. Show all of your work (use calculus). If the integral cannot be evaluated by the usual methods, explain why.

1.  $\int_1^4 x\sqrt{x} - \frac{3}{x^3} dx$

2.  $\int (x+5)(2x-1) dx$

3.  $\int \cot^3 x \csc^2 x dx$

4.  $\int x \sin(x^2) dx$

5.  $\int_0^1 9x\sqrt{3x+1} dx$

6.  $\int_{-2}^2 \frac{x}{(x+1)^2} dx$