

EXTRA HOMEWORK FOR § 5.1

Evaluate the following antiderivatives.

1. $\int \frac{1}{2x-3} dx$

2. $\int 4(3^{2x-4}) dx$

3. $\int \frac{4}{1+(3x-2)^2} dx$

4. $\int e^{3-2x} dx$

5. $\int \frac{x^2+3x-4}{x} dx$

6. $\int \frac{1}{3+x^2} dx$

7. $\int \frac{5}{3x+6} dx$

8. $\int 6^{4-5x} dx$

9. $\int \frac{4}{6+(2x-1)^2} dx$

10. $\int \frac{e^{2x}-3e^x+5}{e^x} dx$

11. $\int \frac{1}{4-5x} dx$

12. $\int \frac{e^{3x-1}+e^{4x+2}}{e^{5-2x}} dx$

13. $\int \frac{3x^2-2x+5}{4x+3} dx$

14. $\int \frac{5}{9x^2+6x+4} dx$ (**Hint:** complete the square in the denominator)