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Math 2020, Fall 2016, Worksheet 1
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1.

$$\int (2x - 3)^9 dx$$

2.

$$\int \frac{\sin(x)}{1 + \cos^2(x)} dx$$

3.

$$\int \frac{\sin(2x)}{1 + \cos^2(x)} dx$$

4.

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

5.

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

6.

$$\int \frac{x}{1+x^4} dx$$

7. Describe the region between $y = 2x^2 - 6x$ and $y = 2x$ and find its area.

8. Describe the region between the x -axis, $y = x - 3$ and $y = x/4$ and find its area.

———— The End ————