

## Quiz 3

1. Evaluate.

(7 pts.)

$$\int 5 \cos^4(3x) \sin^5(3x) dx$$

2. Find the general anti-derivative of  $f(x) = \frac{-x + 7}{(x - 3)(x - 4)}$ .

(6 pts.)

3. Evaluate.

(7 pts.)

$$\int \frac{\sqrt{x^2 - 225}}{x} dx$$