

## Overall Integration Quiz

1)  $\int \cos^2 4x \, dx$

2)  $\int \frac{2r-2}{r^2-5r+8} \, dr$

3)  $\int \sec^5 2x \tan^5 2x \, dx$

4)  $\int_2^4 \frac{dx}{x\sqrt{x-9}}$

5)  $\int \tan^4 5x \, dx$

6)  $\int \sin^5 5x \cos^4 5x \, dx$

7)  $\int \sqrt{1+9x^2} \, dx$

8)  $\int \frac{dx}{\sqrt{4x^2-16x+7}}$

$$9) \int \frac{e^{\sqrt{x}} dx}{\sqrt{x}}$$

$$10) \int 4x^2 e^{-2x} dx$$

$$11) \int \frac{5x^2 + 20x + 6}{x^3 + 2x^2 + x} dx$$

$$12) \int \sec^3 2x dx$$

$$13) \int \cos^4 4x dx$$

$$14) \int \arctan 2x dx$$