Name: ———————————————————— **Section**: ————————————

Clear your desk of everything except pens, pencils and erasers. **Show all your work.**
If you have a question raise your hand and I will come to you.

1. (5 points) Evaluate the integral
$$\int_0^{\pi/4} \cos^5(2x) \sin^2(2x) \, dx$$

2. (5 points) Evaluate the integral
$$\int \frac{x^3}{\sqrt{4+x^2}} \, dx$$