Please work in groups with no more than four people and complete this worksheet during class. Hand in one worksheet for each group.

1. Compute the following integrals:

   (a) \( \int \cos 5x \, dx \).

   (b) \( \int t^4 \sqrt{3 - 5t^6} \, dt \).
(c) \[ \int_{\pi/6}^{\pi/4} \frac{x + \cos(2x)}{\sqrt{x^2 + \sin(2x)}} \, dx. \]