Brief answer to selected problems in Homework 11

1. Section 5.5:

   problem 79: All three are correct. One can also verify using trigonometric identities $\cos^2 \theta = 1 - \sin^2 \theta = \frac{1}{2} + \cos 2\theta$.

2. Section 5.6:

   problem 112: use the change of variable $u = 1 - x$.

   problem 117: use the change of variable $u = x - c$.