Advanced Math

5-1

Using Fundamental Identities

Rewrite the expression so that it is not in fraction form.

61) $\dfrac{\sin^2 y}{1 - \cos y}$

Use the trigonometric substitution to write the algebraic expression as a trigonometric function of θ, where $0 < \theta < \dfrac{\pi}{2}$.

71) $\sqrt{25 - x^2}, \ x = 5 \sin \theta$

Verify the identity.

9) $\sin^2 \alpha - \sin^4 \alpha = \cos^2 \alpha - \cos^4 \alpha$

Assignment:
pg. 463
62,64,72, 74,
76, 81, 82
pg. 471
1-17 all.