Worksheet #3

Perform the indicated integrations.

(1) $\displaystyle\int \frac{\sqrt{4-x^2}}{x^2}\,dx$

(2) $\displaystyle\int \frac{dx}{x\sqrt{x^2-9}}$

(3) $\displaystyle\int \frac{dx}{\sqrt{x^2+2x+5}}$

(4) $\displaystyle\int \frac{x}{\sqrt{4x-x^2}}\,dx$