Full Name: _____

1. Use a partial fraction decomposition to evaluate each of the following indefinite integrals.

(a) $\displaystyle\int \frac{1}{x^2 - 25}\, dx$

(b) $\displaystyle\int \frac{-4x + 22}{x^2 - 6x + 8}\, dx$

(c) $\int \dfrac{6x^2 - 7x + 6}{x^3 + 3x^2}\,dx$

(d) $\int \dfrac{-x^2 + 4x + 4}{x^3 - 4x^2 + 4x}\,dx$

(e) $\int \dfrac{x^2 - 5x - 8}{x^3 + 4x}\,dx$