## Quiz 1 Calculus 2 8/29/2006

Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. Find the most general antiderivative of the function  $f(x) = 6\sqrt{x} - \sqrt[6]{x}$ .

2. Find *f* if f''(x) = 2 - 12x, f(0) = 9, and f(2) = 15.