- 8. (17 points)
  - (a) A small company makes x hand-painted tiles daily at a cost of  $C(x) = 125 + 30x + 2x^{3/2}$  dollars. What daily production level minimizes the *average* cost—*i.e.*, the cost per tile?

(b) If the the company sells each tile for \$75, how many tiles should they make daily in order to maximize daily profit?