Attendance Quiz 5

Name: _____________________________ Date: __________________

1. (Depreciation) Suppose a piece of heavy machinery costs $24,000 and depreciates linearly at the rate of 8% per year.

(a) Find a formula for the value $V$ of the item after $t$ years.

(b) Use this formula to determine value $V$ of the item after 7 years.

(c) After how many years will the item be worth $5000$?

(d) After how many years will the item have lost all its value?