



- c. How much money will be in the account after 2 years? Round to the nearest penny.
- d. How long will it take for the money in the account to triple? Round to two decimal places.

## ANSWER KEY

1. a.  $\frac{dP}{dt} = 0.078P$ ; b.  $P(t) = 75,000e^{0.078t}$ ; c.  $P(2) = \$87,661.97$ ; d.  $t = 14.08$  years