Answer on Question #81458 – Math – Algebra

Question

A man 5 year older than his wife who is ten times as old as her daughter. If the daughter attains the age of 8 in three years what is age of man.

Solution

Suppose that
  γ is the age of man,
  then age of wife is $(\gamma - 5)$,
  and the age of daughter is $(\gamma - 5)/10$.

Age of daughter now is $(8 - 3) = 5 \implies$

$$\frac{\gamma - 5}{10} = 5;$$

$$(\gamma - 5) = 50;$$

$$\gamma = 50 + 5;$$

$$\gamma = 55.$$

Answer: the age of man is 55.