

## Applied Mathematics I Worksheet #1 Answers

1.  $x =$  Jack's age,  $y =$  Jill's age.

$$\begin{aligned}x &= 4 + 2y \\ y &= 2x - 2\end{aligned}$$

linear, algebraic system of equations

2.  $P(t) =$  population at time  $t$ :

$\theta =$  growth rate = natural birth rate - natural death rate.

$h =$  harvest rate in population units per unit time.

$P_0 =$  initial population.

$$P'(t) = \theta P(t) - h; \quad P(0) = P_0$$

linear, differential scalar equation

3.  $w =$  market share for Widgets Inc. expressed as a percent.

$g =$  market share for Gadgets Galore expressed as a percent.

$$\begin{aligned}w + g &= 100 \\ w &= 0.9w + 0.8g \\ g &= 0.1w + 0.2g\end{aligned}$$

linear, algebraic system of equations

4. Let  $(x; y)$  be the coordinates of the ship measured from the reference point  $(x$  east,  $y$  north) . Then

$$\begin{aligned}(x + 2; 4)^2 + (y - 5; 2)^2 &= 4; 5^2; \\ (x - 3; 8)^2 + (y - 8; 3)^2 &= 2; 9^2; \\ (x - 3; 6)^2 + (y - 4; 5)^2 &= 2; 2^2;\end{aligned}$$

# Applied Mathematics 113 Solved Questions And Answers

**CH Cherryholmes**



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