

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

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

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Yi-Tong Ma



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