CCGPS Coordinate Algebra Day 13 Unit 1 Relationships Among Quantities

5. What is Heidi's final velocity of she accelerates at 2 feet per second squared for 3 seconds with an initial velocity of 4 feet per second?

The formula for computing the balance of an account with compound interest added annually is A=P(1+r) where A represents the amount of money in the account including interest, P is the amount in the account before interest and r is the interest rate written as a decimal

6) If Holly wants a total of $1000 in the bank in a year and has an interest rate of 4% how much money should she put it the bank initially?

7) Should she initially invest more or less if she wants the same return but the interest rate goes down?

Homework: Practice Problems

Rewrite each equation in terms of the indicated (Letter).

1) P = IRT **(T)** $T = \frac{P}{IR}$

2) P = 2(L + W) **(W)** $W = \frac{P}{2} - L$

3) y = 5x - 6 **(x)** $\frac{y+6}{5} = x$

4) 2x - 3y = 8 **(y)** $\frac{8-2x}{-3} = y$ $y = 2+b$

5) $\frac{x+y}{3} = 5$ **(x)** $x + y = 15 - y$ $x = 15 - y$

6) y = mx + b **(b)** $b = y - mx$

7) ax + by = c **(y)** $\frac{c-ax}{b} = y$

8) $A = \frac{1}{2}h(b+c)$ **(b)** $\frac{2A}{h} = b + c$ $b = \frac{2A}{h} - c$

9) V = LWH **(L)** $L = \frac{V}{WH}$

10) $A = 4\pi r^2$ **(r^2)** $r^2 = \frac{A}{4\pi}$ $r = \sqrt{\frac{A}{4\pi}}$