

- ① Get out your calculator.
 ② The height of a projectile is given by

$$h = -16t^2 + 100t + 12$$

h in feet
t in sec

When is the projectile 150 feet high? → find t

If $ax^2 + bx + c = 0$, then

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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$$x = \frac{-100 \pm \sqrt{1168}}{-32}$$

$$x = \frac{-100 \pm \sqrt{(100^2 - 4(-16)(-138))}}{-32} = 2.057, 4.193$$

30% of 250 is ?

$$0.30 (250) = ?$$

$$A = P + \underline{Pr}t$$

\$1000, 3% interest,
for 5 years.

How much after 5
years?

P is principal
r is interest,
decimal form,
t is time in years
A is amount after
t years.

$$A = 1000 + 1000(0.03)(5) \\ = \$1150$$

$$A = P + Prt$$

\$1000, 4%

want \$3000.

$$3000 = 1000 + 1000(.04)t$$

$$3000 = 1000 + 40t$$

$$2000 = 40t$$

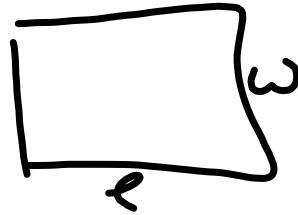
$$t = 50$$

$$5x + 8 = 17$$

$$A = P \left(1 + \frac{r}{n} \right)^{nt}$$

$$A = P + Prt \quad \textcircled{A} = \textcircled{B} + \textcircled{C}t$$

$$A - P = Prt$$



$$\frac{A - P}{Pr} = t$$

$$P = 2l + 2w$$

Solve for l

$$P - 2w = 2l$$

$$\frac{P - 2w}{2} = l$$

$$l = \frac{P}{2} - \frac{2w}{2}$$

$$l = \frac{P}{2} - w$$

$$3x - 2y = 4 \quad y = mx + b$$

$$-2y = -3x + 4 \quad \begin{matrix} \uparrow \\ (4 - 3x) \end{matrix}$$

$$y = \frac{-3x + 4}{-2}$$

$$y = \frac{-3x}{-2} + \frac{4}{-2} \quad \frac{-3}{-2} \cdot \frac{x}{1}$$

$$\frac{3}{2}x$$

$$\frac{3}{2}x$$

$$\boxed{y = \frac{3}{2}x - 2}$$

$$A = P + Prt \quad \text{Solve for } P$$

$$A = P \cdot (1 + rt)$$

$$\frac{A}{1 + rt} = P$$

$$ax + 2 = bx - 7 \quad \text{Solve for } x$$

$$ax - bx + 2 = -7$$

$$3x + 2 = 5x - 7$$

$$ax - bx = -9$$

$$x \cdot (a - b) = -9$$

$$x = \frac{-9}{a - b}$$