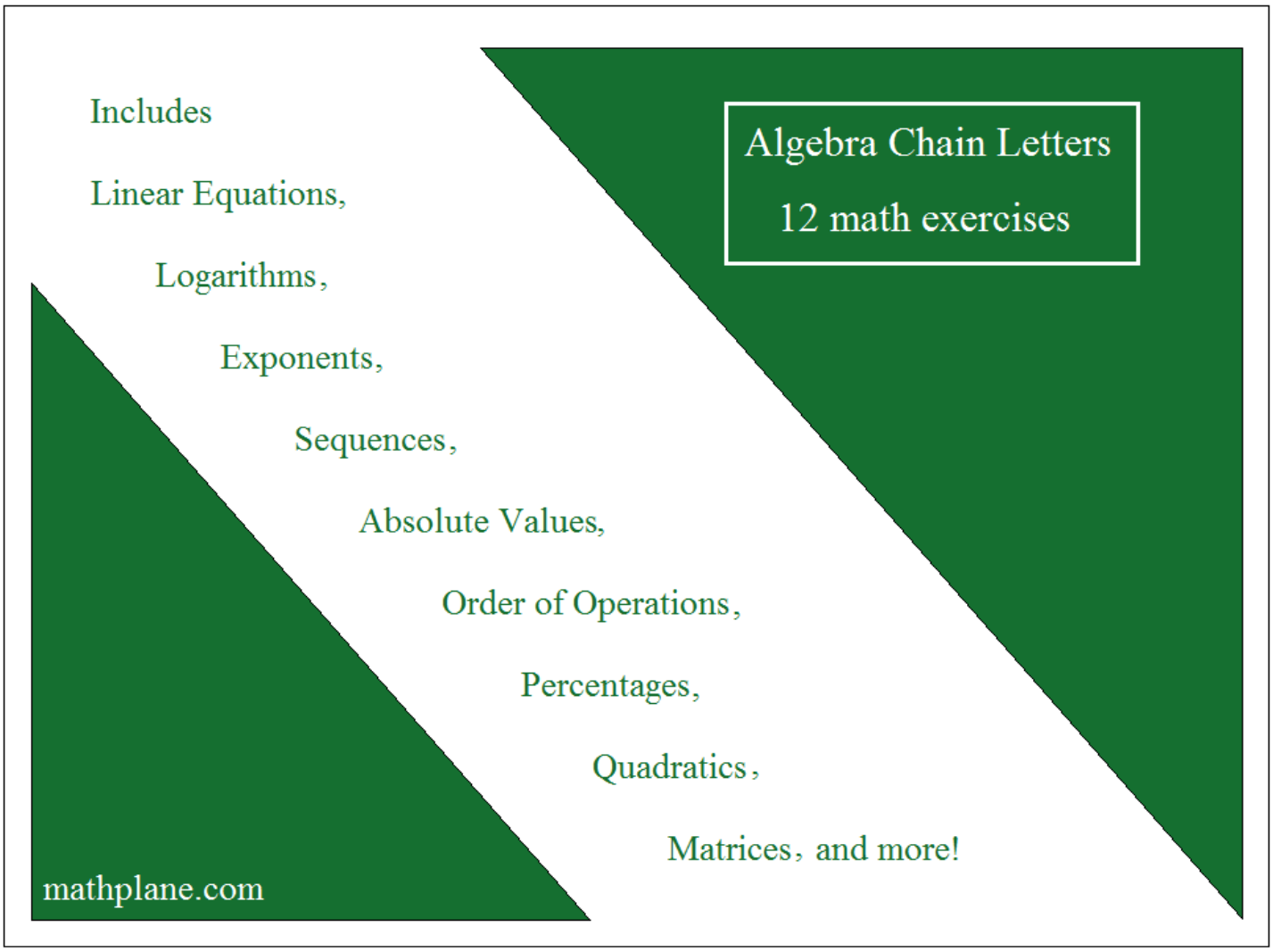
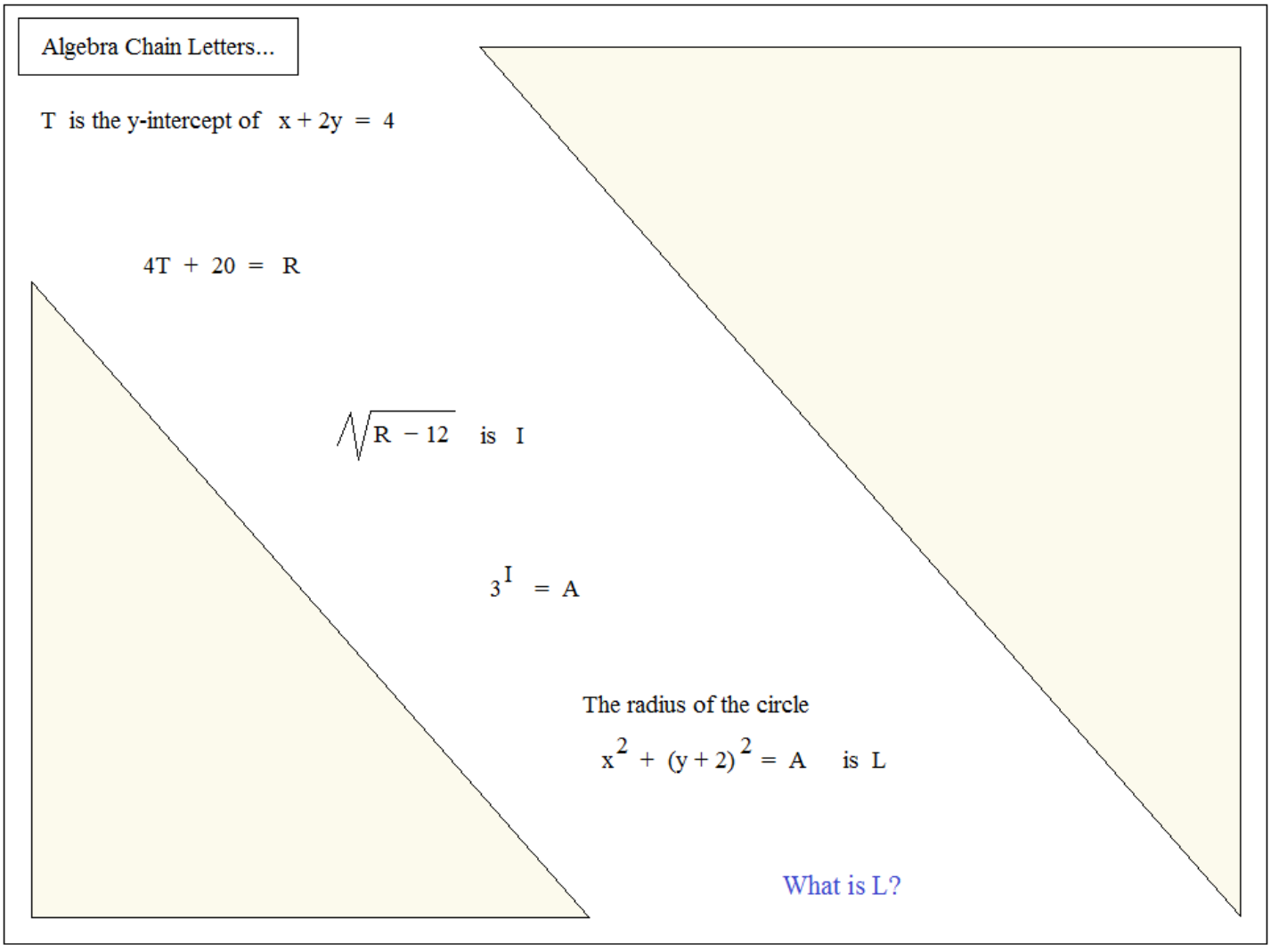

Algebra Chain Letters
12 math exercises
Includes
Linear Equations,
Logarithms,
Exponents,
Sequences,
Absolute Values,
Order of Operations,
Percentages,
Quadratics,
Matrices, and more!
mathplane.com

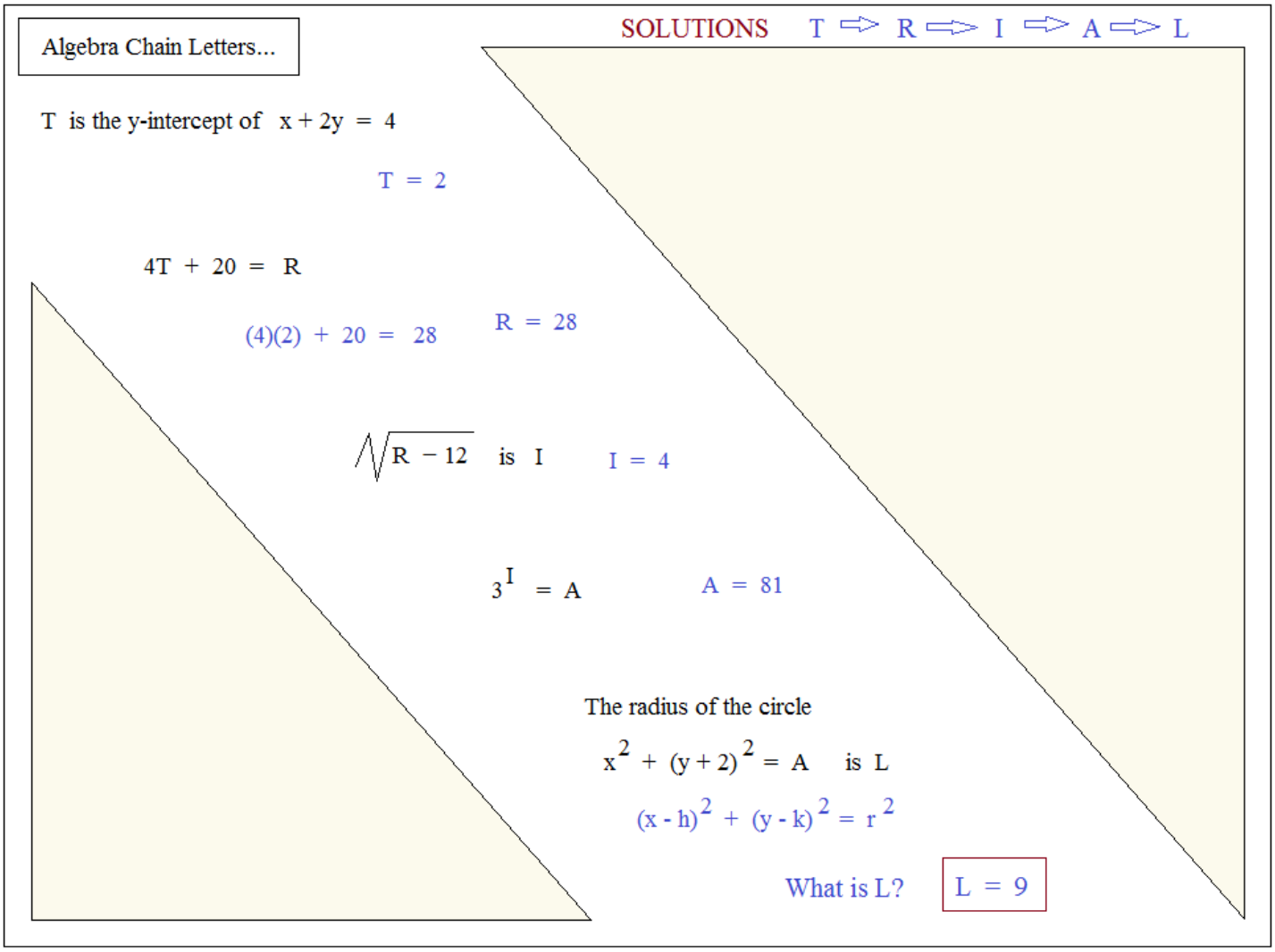
Algebra “Chain Letters” are composed of 5 brief math questions.

Answer each one, in sequence, to reach the last letter -→ the solution!

Here is a trial run for you to try.



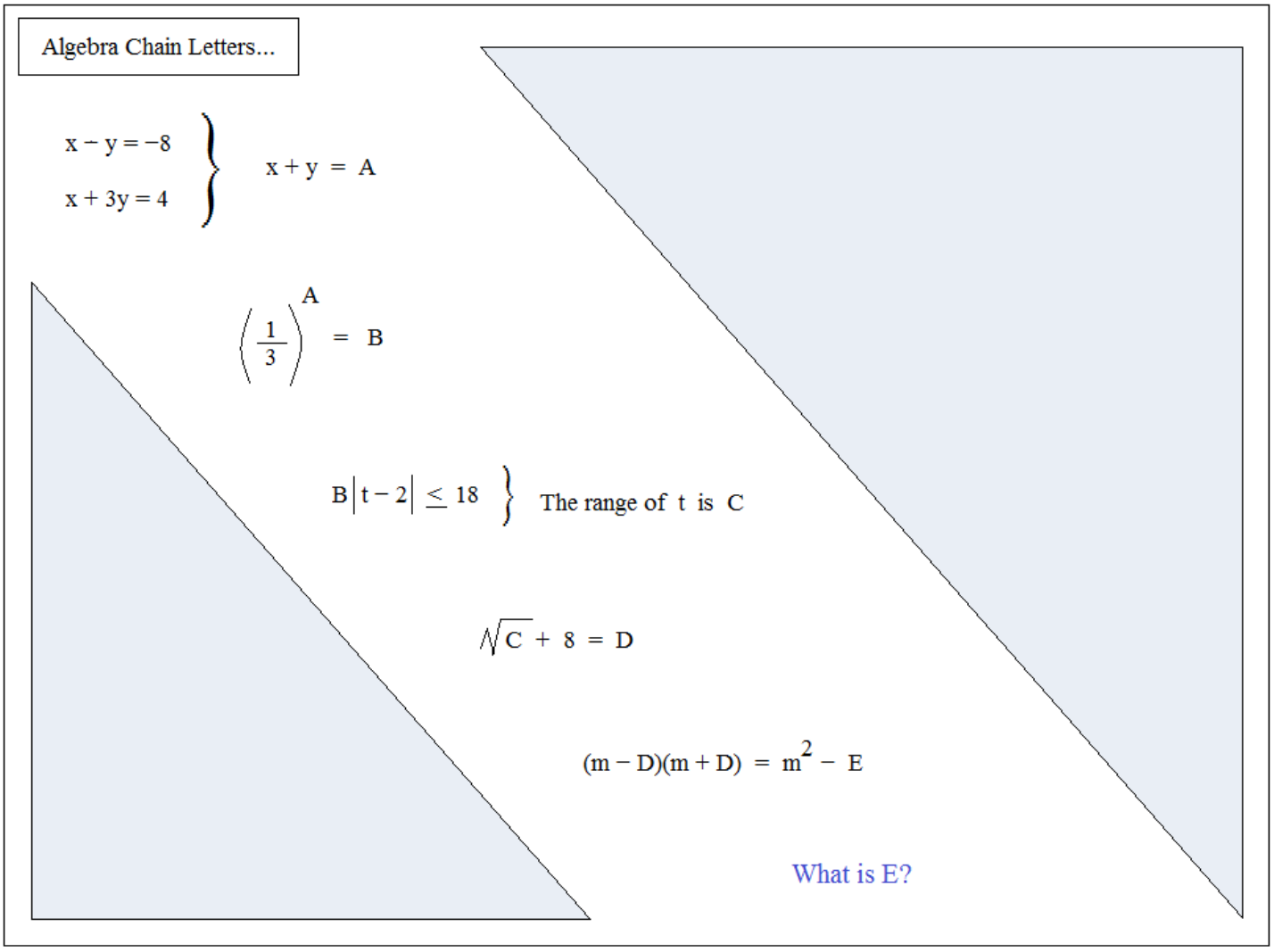
SOLUTIONS→



Here are 12 more chains, involving a variety of algebra topics…

Enjoy!

1)


Algebra Chain Letters...
x − y = −8
x + 3y = 4
x + y = A
(1/3)^A = B
B|t − 2| ≤ 18
The range of t is C
√C + 8 = D
(m − D)(m + D) = m^2 − E
What is E?

12)

Algebra Chain Letters...

P is the maximum value of the curve

$$y = -2(x+5)^2 - 8$$

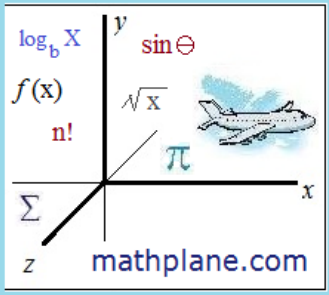
$$\frac{1}{5}L + P = 12$$

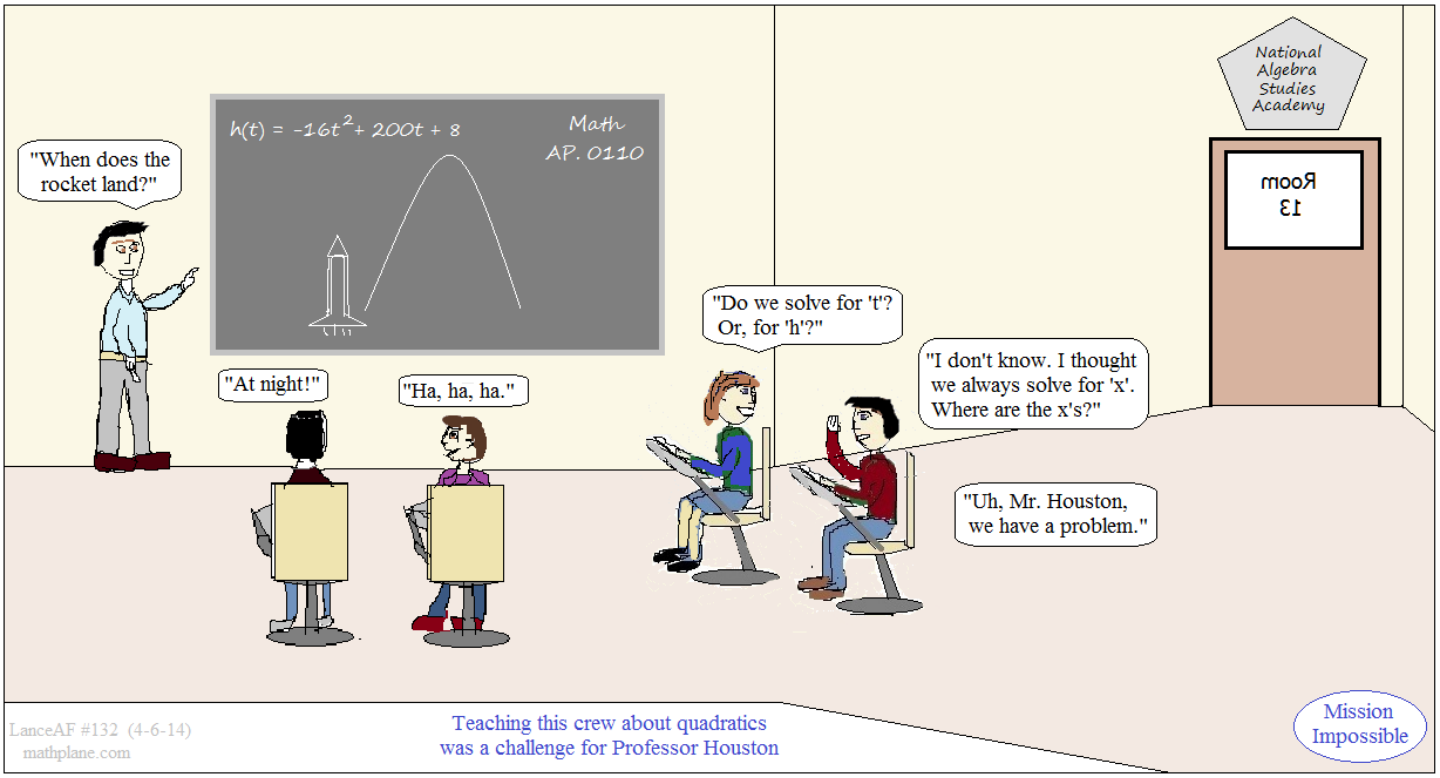
$$\log(L) = A$$

$$N = LP^A$$

$$E = \sqrt{N}$$

What is E?




$h(t) = -16t^2 + 200t + 8$
Math
AP. 0110
"When does the rocket land?"
"At night!"
"Ha, ha, ha."
"Do we solve for 't'? Or, for 'h'?"
"I don't know. I thought we always solve for 'x'. Where are the x's?"
"Uh, Mr. Houston, we have a problem."
National Algebra Studies Academy
Room 13
LanceAF #132 (4-6-14)
mathplane.com
Teaching this crew about quadratics was a challenge for Professor Houston
Mission Impossible

SOLUTIONS-→

Algebra Chain Letters...

SOLUTIONS A ⇨ B ⇨ C ⇨ D ⇨ E

$$\left.\begin{aligned} x - y &= -8 \\ x + 3y &= 4 \end{aligned}\right\} \quad x + y = A$$

$(-5, 3)$ $A = -2$

$$\left(\frac{1}{3}\right)^{A} = B \qquad B = 9$$

$$\left.B\left|t - 2\right| \leq 18\right\}$$ The range of t is C

$0 \leq t \leq 4$ range $C = 4$

$$\sqrt{C} + 8 = D$$

$D = 10$

$$(m - D)(m + D) = m^2 - E$$

What is E? $E = 100$

Algebra Chain Letters...

SOLUTIONS P ⇨ L ⇨ A ⇨ N ⇨ E

P is the maximum value of the curve

$$y = -2(x+5)^2 - 8$$

this parabola opens downward, so the maximum value is the vertex....
(-5, -8)

$P = -8$

$$\frac{1}{5}L + P = 12$$

$$\frac{1}{5}L + (-8) = 12$$

$$\frac{1}{5}L = 20$$

$L = 100$

$$\log(L) = A$$

$A = 2$

$\log(100) = 2$

$$N = LP^A$$

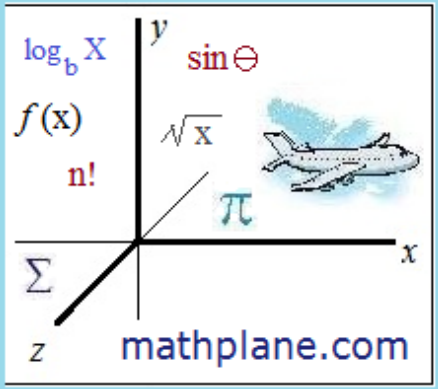
$N = 6400$

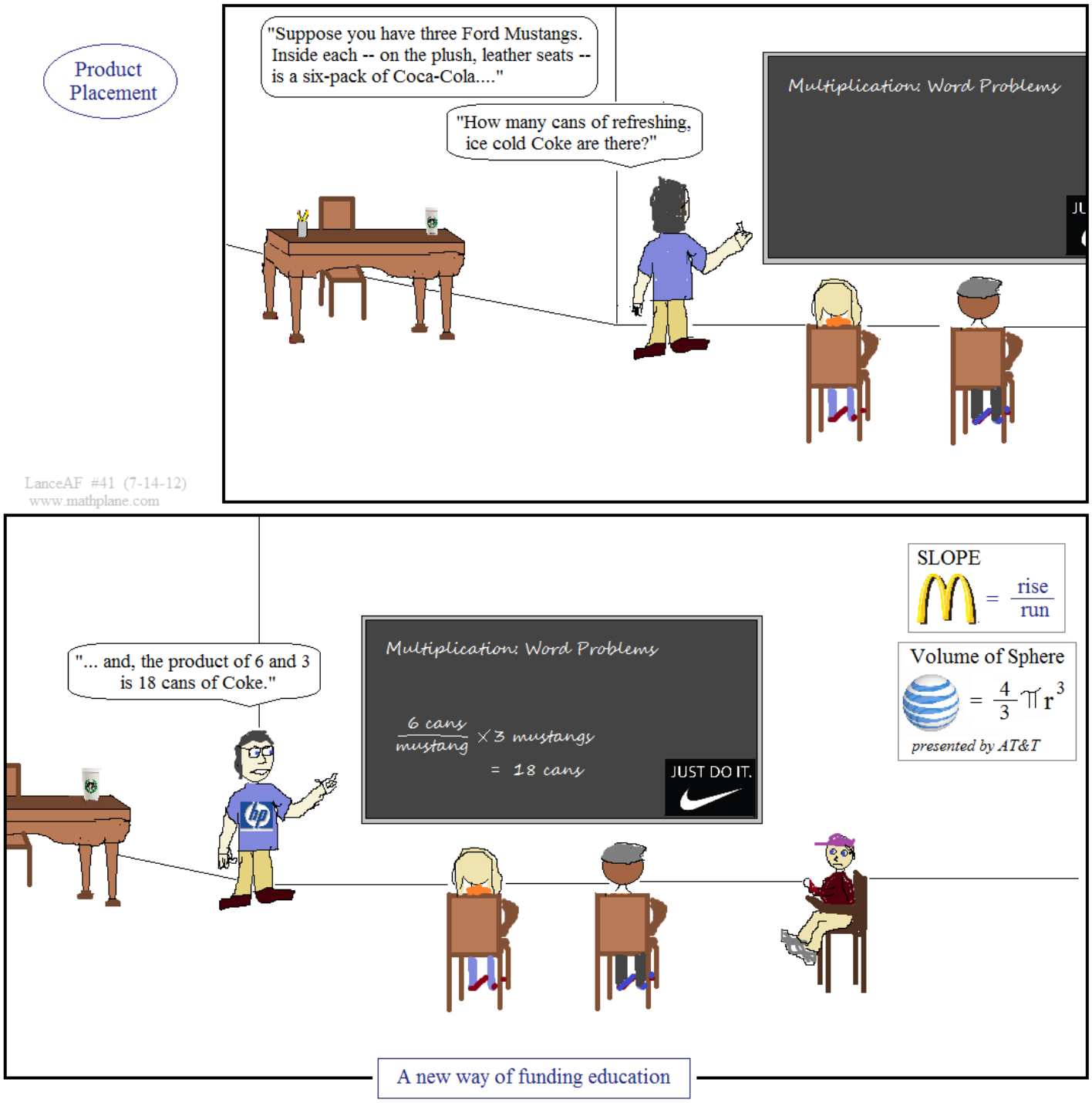
$N = 100 \cdot (-8)^2$

$$E = \sqrt{N}$$

$\sqrt{6400} = 80$

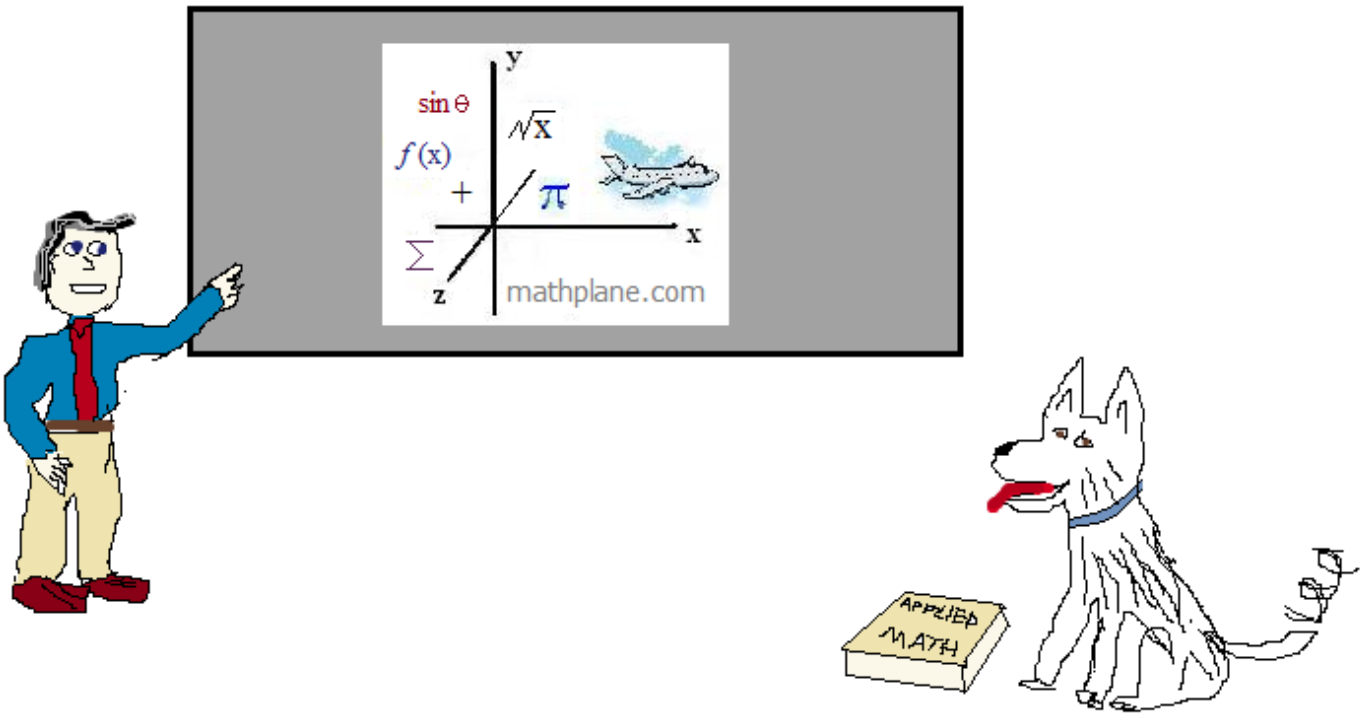
What is E? E = 80





< END OF PREVIEW >

Thanks for visiting! To see the other chain letter exercises, download the product file. Proceeds go to mathplane site maintenance and improvement (and, treats for Norway the Husky!). We appreciate your support.



Also, Mathplane *Express* for mobile at mathplane.org