

Give the equation for logs.
 Log to exponential and then exponential to log.

Nov 1-9:37 AM

$$y = \frac{17.28}{x}$$

$$17.28 = (8.6 - y)y$$

$$17.28 = 8.6y - y^2$$

$$y^2 - 8.6y + 17.28 = 0$$

$$P = 2x + 2y \quad A = xy$$

$$17.2 = 2x + 2y \quad 17.28 = xy$$

$$\frac{2x}{2} = \frac{17.2 - 2y}{2} \quad y = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = (8.6 - y) \quad y = \frac{8.6 \pm \sqrt{8.6^2 - 4(1)(17.28)}}{2(1)}$$

$$y = 5.4 \quad y = 3.2$$

$$xy = 17.28$$

$$x = \frac{17.28}{5.4} = 3.2$$

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$$\begin{bmatrix} x & y & z & \# \\ 1 & -5 & 0 & 3 \\ 0 & 0 & 1 & 3 \\ 0 & 0 & 0 & 0 \end{bmatrix} \quad \begin{array}{l} x - 5y = 3 \quad x = 5y + 3 \\ z = 3 \quad \text{Infinite \#} \\ 0 = 0 \quad y = y \\ \quad \quad \quad z = 3 \end{array}$$

$$(x, y, z) = (5y + 3, y, 3)$$

$$\begin{bmatrix} x & y & z & \# \\ 1 & 2 & 0 & 13 \\ 0 & 0 & 1 & 12 \\ 0 & 0 & 0 & 5 \end{bmatrix} \quad \begin{array}{l} 1x + 2y = 3 \\ z = -2 \quad \text{No solution} \\ 0 = 5 \end{array}$$

$$\begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 1 \end{bmatrix} \quad \begin{array}{l} x = 4 \\ y = 2 \\ z = 1 \end{array}$$

Nov 1-10:04 AM

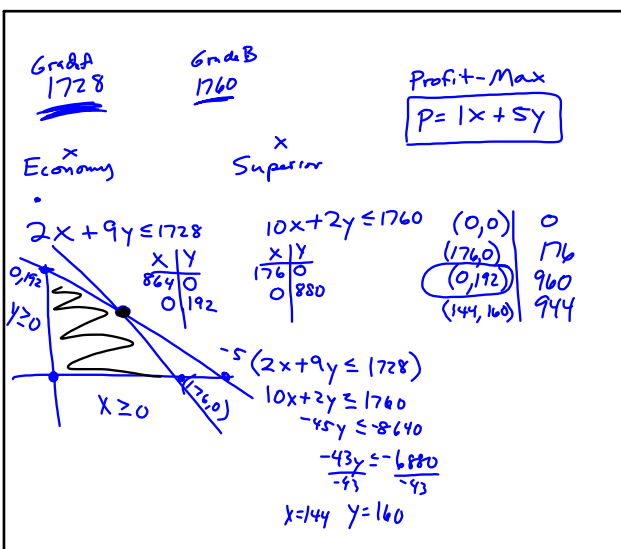
$$A = \begin{bmatrix} 430 & 460 & 450 \\ 630 & 610 & 640 \\ 540 & 440 & 530 \end{bmatrix}$$

$$B = \begin{bmatrix} .80 & .50 & 1.30 \end{bmatrix}$$

$$BA = \begin{bmatrix} 344 & 315 & 702 \\ 1361 & 1310 & 1367 \\ 860 & 1320 & 659 \end{bmatrix}$$

Ⓐ $1 \times 3 = 3 \times 3$
 Ⓑ $[-.80 \ .50 \ 1.30]$
 Ⓒ \$1310

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$$\frac{12}{x^3 - 2x^2} = \frac{A}{x} + \frac{B}{x^2} + \frac{C}{x-2}$$

$$12 = Ax(x-2) + B(x-2) + Cx^2$$

$$12 = Ax^2 - 2Ax + Bx - 2B + Cx^2$$

$$12 = (A+C)x^2 - 2Ax + Bx - 2B$$

$$0 \ 0 \ 12 = x^2(A+C) + x(-2A+B) - 2B$$

$$\begin{array}{l} A+C=0 \\ -3+C=0 \\ C=3 \end{array} \quad \begin{array}{l} -2A+B=0 \\ -2A-6=0 \\ -2A=6 \\ A=-3 \end{array} \quad \begin{array}{l} 12=-2B \\ B=-6 \end{array}$$

Nov 1-10:57 AM