

Ex: 1
$$|_{lmg}$$
 = $\frac{1}{2} \cdot 2 \ln 5 + 0.93^{\circ}$
1. $2 = 3 + 4$; $\frac{4}{3} \approx 0.927$
 $r = \sqrt{3^{2} + 4^{2}} = 5$
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4.1 A·
$$(x,y)$$
 = $(1,1)$
General Solution for A = $(a b)$
 $(a b)$ (1) = (2) $a+b=2$

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 2 \\ 3 \end{pmatrix} \qquad a+b=2 \rightarrow b=2-a$$

$$c+d=3 \rightarrow d=3-c$$

$$A = \begin{pmatrix} a & 2-a \\ c & 3-a \end{pmatrix}$$

 $4.2 \quad A \cdot (x,y) = (1,1)$

aym= 0.4 3 options to see each other: (1 Bob went to the gym exactly 5 times: (0.4) 5. (0.6)2 (2 Bob went 6 times: (0.4)6 - (0.6) (3 Bob went 7 times: (0.4) $(7)(0.4)^{5}(0.6)^{2} + (7)(0.4)^{6}(0.6)^{1} + (7)(0.4)^{7}$ 7 days 5 of them