

Class Discussion

Unit 7 Topic 1 System of Equations

Ex 1:

$$\text{Solve } \begin{cases} x^2 + (y-2)^2 = 8 \\ -y^2 + 2x + 4y = -4 \end{cases}$$

Ex 2:

$$\text{Solve } \begin{cases} y = x^2 - 6x + 8 \\ y = -|x-3| + 5 \end{cases}$$

Ex 3:

If $y = -(x-3)^2 + 3$ and $y = mx + 1$ intersect at exactly 1 point, find

(1) the slope of the line $y = mx + 1$

(2) the point of intersection