

$$y = x^2 + 4x + a \quad \min \left| \frac{-b}{2a} \rightarrow \frac{-4}{2} = -2 \rightarrow \left(\frac{-4}{2} \right)^2 + 4 \left(\frac{-4}{2} \right) + a = -4$$

$$\square y = -4$$

$$(x + 2)(x + 2) = 0$$

$$x = -2$$

$$x = -2$$

$$y = -x^2 + 4x - 1$$

$$\max \left| \frac{-b}{2a} \rightarrow \frac{-4}{-2} = 2 \rightarrow \left(\frac{-4}{-2} \right)^2 + 4 \left(\frac{-4}{-2} \right) - 1 = 7$$

$$\square y = 7$$

$$x^2 - 4x + 1 = 0 \rightarrow \Delta = b^2 - 4ac \rightarrow (-4)^2 - 4(1)(1) = 12$$

$$x = \frac{4 \pm \sqrt{12}}{2} = 2 \pm \sqrt{3}$$

$$x^2 - 4x + a = 0 \quad \Delta = b^2 - 4ac \rightarrow (-4)^2 - 4(1)(a) = 16 - 4a$$

$$16 - 4a = 0 \rightarrow a = 4$$

$$x^2 - 4x - 1 = 0 \rightarrow x^2 - 4x - 1 + 4 = 3$$

$$(x - 2)^2 = 3$$

$$x - 2 = \pm \sqrt{3}$$

$$x = 2 + \sqrt{3}$$

$$x = 2 - \sqrt{3}$$

$$x^2 - 4x - 1 = 0 \quad \Delta = b^2 - 4ac \quad 1$$

$$x = \frac{4 \pm \sqrt{20}}{2} = 2 \pm \sqrt{5}$$

$$x = \frac{4 \pm \sqrt{20}}{2}$$

$x^P - 11x + P1 = 0 \quad (x-F)(x-V) \quad 1$ $\left. \begin{array}{l} x-F=0 \\ x=F \end{array} \right\}$$\underline{x-V=0}$$x=V$	$x^P + vx - P1 = 0$ $(x+V)(x-F)$ $x=-V$ $x=+F$	2	
$d x^P - 1P x + V = 0$ $x^P - 1P x + V = 0 \rightarrow (x-V)(x-d)$ $x=V \quad \frac{V}{d} \cdot \frac{d}{d} = 1$ $x=d$	$\mu x^P - 10x + V = 0$ $x^P - 10x + P1$ $(x-\mu)(x-V)$ $x=\mu \quad x=V$ $1 = \frac{\mu}{P} \cdot \frac{V}{\mu}$	V	
$F x^P + V x + q = 0 \quad (S)$ $\Delta = b^2 - 4ac$ $(V)^2 - F(F)(q)$ $V^2 - 1FF = -qF$ $\underline{\text{slim } 0}$	$P x^P - d x + 1 = 0 \quad (C)$ $\Delta = b^2 - 4ac \rightarrow (-d)^2 - 4(P)(1)$ $F(P)(1) = 1V$ -1 $x = \frac{+d \pm \sqrt{1V}}{P}$	$P x^P + d x + \mu = 0 \quad (C)$ $-\frac{C}{a} = \frac{\mu}{P} \quad x = -1$ $P x^P - d x + P = 0 \quad (C)$ $\frac{C}{a} = \frac{\mu}{P} \quad x = 1$	1
$S^P - \mu x p =$ $(-\mu)^P - \mu(-\mu)(-P) = -11 - PV = -EQ$ $-PV$	$S^P - Pp = \left(\frac{P}{q}\right)^P - P(-P) = 1\mu \quad (C)$ $q + P = 1\mu$	9	
$\left(\frac{q}{\mu}\right) - \left(\frac{1}{P}\right) = \frac{P \cdot F}{q x A x V} = 1F$ $\frac{A x V}{P} = P1 \rightarrow 1F - P1 = d4$	$\left(\frac{V}{d}\right) + \left(\frac{q}{P}\right) = \frac{V x q x x x P}{d x F x P x 1} = (C)$ $\frac{V x P}{x 1} = P1 \quad \frac{q x A^F}{x 1} = \mu 4$ $P1 + \mu 4 = dV$	10	