

Whiteboard Problems

① Solve by factoring: $3x^2 + 7x - 6 = 0$, $4x^2 - 11x - 3 = 0$

② Solve $x^4 + 6x^2 - 27 = 0$ $x^4 - 4x - 12 = 0$ $(x-9)^2 + 4(x-9) - 5 = 0$
 $(x+7)^2 - 7(x+7) + 12 = 0$

③ Put in $y - k = a(x - h)^2$ form
 $f(x) = 3x^2 - 18x + 6$ $f(x) = 2x^2 + 4x - 7$

④ Find the max or min. State which (max or min)

$$y - 7 = -12(x + 28)^2$$

$$y + 100 = 87(x + 3)^2$$

⑤ graph: $y - 4 = -2(x - 3)^2$ $y + 7 = \frac{1}{4}(x + 1)^2$