

12/5/12 Whiteboard Problems

Graph

① $y - 3 = 4(x + 5)^2$ ② $y + 6 = (x - 2)^2$

③ $y + 3 = -1(x - 4)^2$

Determine the nature of the roots

④ $x^2 - 3x + 4 = 0$

⊖ 2 imag

⑤ $3x^2 + 9x - 1 = 0$

$81 + 12 = 93$

2 real dist. roots

⑥ $x^2 - 2x + 1 = 0$

1 double.

Graph

⑦ $y = \frac{1}{2}(x + 4)^2$

⑧ $y - 5 = \frac{2}{3}(x)^2$

⑨ $y - 5 = -\frac{1}{2}(x + 4)^2$

Solve using any method

⑩ $x^2 - 6x + 4 = 0$

⑪ $x^2 - 9x + 14 = 0$