

QUADRATIC EQUATION & IMAGINARY ZEROS. (P.3, P.4, 1.1, 1.4, 1.5, 3.1, 3.4.)

A 1. SOLVE $x - 4 = 0$

2. CONSIDER $x^2 - 6x + 8$

a, FACTOR

b, CHECK BY MULTIPLYING

3. CONSIDER $x^2 - 6x + 8 = 0$

a, SOLVE BY FACTORING

b, SOLVE WITH QUADRATIC FORMULA

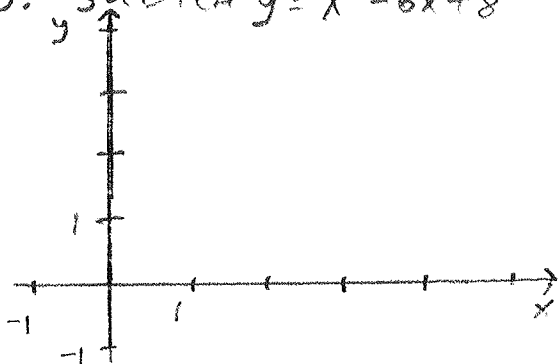
4. MULTIPLY

a, $(x-3)(x-3)$

b, $(x+1)(x-1)$

c, $(x-y-1)(x-y+1)$

5. SKETCH $y = x^2 - 6x + 8$



B 1. SOLVE $x - (3+i) = 0$ FOR x .

2. SOLVE $x^2 + 1 = 0$. HINT: $i^2 = -1$.

3. CAN $x^2 - 6x + 10$ BE FACTORED?

4. MULTIPLY $(3+i)(3-i)$

5. MULTIPLY $[x - (3+i)][x - (3-i)]$

5. SOLVE WITH QUADRATIC FORMULA:

$x^2 - 6x + 10 = 0$. HINT: $\sqrt{-1} = i$.

7. WHAT ARE FACTORS OF $x^2 - 6x + 10$?

8. SKETCH $y = x^2 - 6x + 10$

