

$$\begin{aligned}
 x^2 - 6x &= -10 \\
 x^2 - 6x + 10 &= 0 \\
 x &= \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(10)}}{2(1)} \\
 &= \frac{6 \pm \sqrt{36 - 40}}{2} \\
 &= \frac{6 \pm \sqrt{-4}}{2} \\
 &= \frac{6 \pm 2i}{2} \\
 &= \frac{6}{2} \pm \frac{2i}{2} \\
 &= 3 \pm i
 \end{aligned}$$

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$$\begin{aligned}
 (3+i)^2 - 6(3+i) &= -10 \\
 9 + 6i + i^2 - 18 - 6i &= -10 \\
 9 + 6i - 1 & \\
 8 + 6i - 18 - 6i &= -10 \\
 -10 &= -10
 \end{aligned}$$

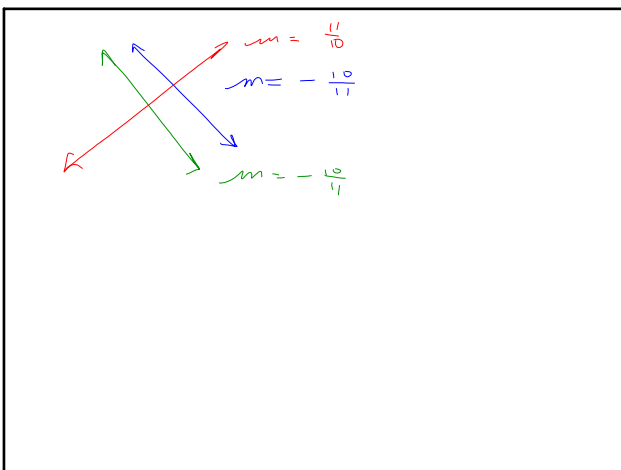
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$$\begin{aligned}
 i^{-27} &= \frac{1}{i^{27}} = \frac{1}{(i^4)^6 \cdot i^3} \\
 \frac{27}{4} &= 6 \text{ r } 3 \\
 &= \frac{1}{1 \cdot i^2 \cdot i^1} \\
 \frac{1}{-i} \cdot \frac{i}{i} &= \frac{i}{-i^2} \\
 &= \frac{i}{(-1) \cdot (-1)} \\
 &= i
 \end{aligned}$$

Apr 21-11:14 AM

$(-5, 2) \neq (4, -8)$   
 ① find eq in S.F.  $m = -\frac{10}{11}$   
 ② " " Parallel  $(2, -3)$   $m = -\frac{10}{11}$   
 ③ " " Perp.  $(2, -3)$   $m = \frac{11}{10}$

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$$\begin{aligned}
 m &= -\frac{10}{11} \frac{\Delta y}{\Delta x} = \frac{-10}{11} \\
 &(2, -3) \\
 &(2+11, -3+(-10)) \\
 &(13, -13)
 \end{aligned}$$

Apr 21-11:49 AM