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#Jenny



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so many fake sites. this is the first one which worked! Many thanks

$a = 21, b = -28,$ and $c = 10$
Therefore, the discriminant of the given equation is
 $D = b^2 - 4ac = (-28)^2 - 4 \times 21 \times 10 = 784 - 840 = -56$
Therefore, the required solutions are
$$\frac{-b \pm \sqrt{D}}{2a} = \frac{-(-28) \pm \sqrt{-56}}{2 \times 21} = \frac{28 \pm \sqrt{56}i}{42}$$
$$= \frac{28 \pm 2\sqrt{14}i}{42} = \frac{28}{42} \pm \frac{2\sqrt{14}i}{42} = \frac{2}{3} \pm \frac{\sqrt{14}i}{21}$$

Question 10:

If $z_1 = 2 - i, z_2 = 1 + i,$ find $\left| \frac{z_1 + z_2 + 1}{z_1 - z_2 + 1} \right|$.

Answer:

$z_1 = 2 - i, z_2 = 1 + i$

$\therefore \left| \frac{z_1 + z_2 + 1}{z_1 - z_2 + 1} \right| = \left| \frac{(2 - i) + (1 + i) + 1}{(2 - i) - (1 + i) + 1} \right|$

$= \left| \frac{4}{2 - 2i} \right| = \left| \frac{4}{2(1 - i)} \right|$

$= \left| \frac{2}{1 - i} \cdot \frac{1 + i}{1 + i} \right| = \left| \frac{2(1 + i)}{1^2 - i^2} \right|$

$= \left| \frac{2(1 + i)}{1 + 1} \right| \quad [i^2 = -1]$

$= \left| \frac{2(1 + i)}{2} \right|$

$= |1 + i| = \sqrt{1^2 + 1^2} = \sqrt{2}$

Thus, the value of $\left| \frac{z_1 + z_2 + 1}{z_1 - z_2 + 1} \right|$ is $\sqrt{2}$.

Question 11:

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