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Math 1060 4.4.9

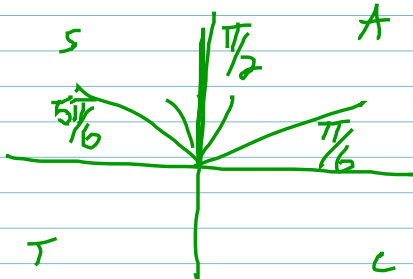
in  $[0, 2\pi)$ , solve

$$2\sin^2 x - 3\sin x = -1$$

$$2\sin^2 x - 3\sin x + 1 = 0$$

$$(2\sin x - 1)(\sin x - 1) = 0$$

$$\downarrow \qquad \qquad \downarrow$$
$$\sin x = \frac{1}{2}, \quad \sin x = 1$$



$$x = \frac{\pi}{6}, \frac{\pi}{2}, \frac{5\pi}{6}$$

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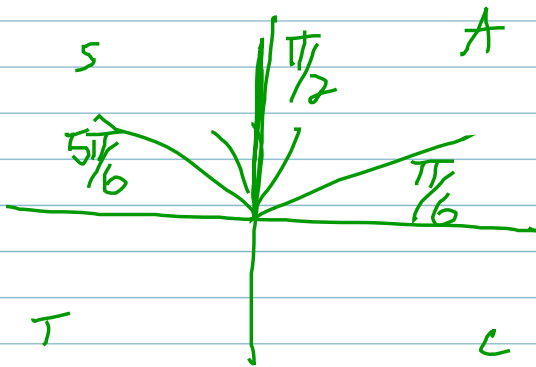
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