Rewrite $14x$ as $9x + 5x$, as $9 \cdot 5 = 45$, and $9 + 5 = 14$. Then factor by grouping to get:

$(5x + 3)(3x + 1) = 0$

$5x + 3 = 0$ or $3x + 1 = 0$

$5x = -3$ or $3x = -1$

$x = -\dfrac{3}{5}$ or $x = \dfrac{-1}{3}$