

Incorrect. If the polynomial can be factored, the factorization will "look like" either $(3x + r)(2x + s)$, where $rs = 12$ and $2r + 3s = -22$, or $(6x + r)(x + s)$, where $rs = 12$ and $r + 6s = -22$. Can you find values for r and s that make one of these possibilities work?