

Box all answers!

Factor completely and check by FOIL. If you need more room, do checks on the back.

1) $x^2 - 6x - 112$

2) $x^2 + 5x - 24$

3) $2x^2 + 11x + 14$

4) $8x^2 - 39x + 28$

5) $64x^2 - 25$

6) $121x^2 - 4y^2$

7) $3x^3 + 2x^2 + 33x + 22$

8) $10x^2 - 35x + 6xy - 21y$

Solve by factoring and check each solution in the original equation using the order of operations. Please list solutions least to greatest in { }.

9) $x^2 - 6x - 135 = 0$

10) $2x^2 - 23x + 30 = 0$