

DO NOW

Factor:

1. $25x^2 + 100$ GCF
 $25(x^2 + 4)$

2. $3y^2 - 8y + 4$ L D I F
 $(3y - 2)(y - 2)$

3. $9b^2 - 64$ D I F F
 $(3b - 8)(3b + 8)$

Quiz 7.3 Mixed Factoring

Factor Trinomials $a \neq 1$

- * Trial and error
- * Like puzzleboxes
- * If a or c are prime numbers
 $\rightarrow$ focus on that # first

Examples:

1. $3x^2 - 4x - 4$ $\begin{smallmatrix} 1,4 \\ 2,2 \end{smallmatrix}$

$(3x + 2)(x - 2)$

2. $2x^2 + 13x + 15$ $\begin{smallmatrix} 1,15 \\ 3,5 \end{smallmatrix}$

$(2x + 3)(x + 5)$

3. $4x^2 + 8x - 5$ $\begin{smallmatrix} 1,4 \\ 2,2 \end{smallmatrix}$
 $(2x - 1)(2x + 5)$

4. $7x^2 + 10x + 3$
 $(x + 1)(7x + 3)$

5. $8x^2 + 2x - 15$
 $(4x - 5)(2x + 3)$

HOMEWORK

Worksheet HW 7.3 - Mixed Factoring 2