CCE	Alarabra	ı
GSE	Algebra	١

Unit 3 - Quadratics

3.89 - Notes

Name: ___

Date:

Factor Completely

- Use all of the methods you have learned to factor each trinomial completely
- Think about...
 - GCF Factoring
 - Trinomial Factoring
 - **DOTS** Factorings

Factor each trinomial completely.

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1.
$$6x^2 - 48x$$
 $6x(x-9)$

2. $x^2 + 17x + 70$
 $(x+10)$

3. $x^2 - 13x + 30$
 $(x-10)(x-3)$

4. $2x^2 - 36x + 160$
 $3x^2 - 18x - 40$
 $3x^2$

16. The area of a rectangle is represented by the expression $8x^2 - 2x - 15$. The length is given as (4x + 5). What is an expression for the width?

$$(2x-3)$$

17. The area of a rectangle is represented by the expression $9x^2 - 22x + 7$. The length is given as (3x - 1). What is an expression for the width?

$$(3x+7)$$

18. The length of a rectangle is expressed as (5x + 2) and the width is expressed as (x - 4). What is an expression for the area of the rectangle?

19. The length of a rectangle is expressed as (3x - 7) and the width is expressed as (x - 11). What is an expression for the area of the rectangle

$$(3x - 7)(x - 11)$$

$$3x^{2}-33x-7x+77$$