Module 1.3 Multiply Binomials

Directions: Multiply and simplify the following:

1.
$$(w+4)(w-1)$$

$$= (w+4)(w-1)$$

$$= (w+4)(w+1)$$

$$= ($$

3.
$$(3y-5)(4y-7)$$

4.
$$(-3b-8)(-2b-3)$$

5.
$$(c-4)(c+4)$$

6.
$$(3+2x)(3-2x)$$

7.
$$(x+6)^2 = (X+L)(X+6)$$

8.
$$(2-7x)^2$$

Module 1.3: Factoring

Factor the following % 45

2.
$$14-7x$$

Note
$$(X + 9)(X + 6)$$

 $= X^2 + (\alpha + L) \times + \alpha + 6$
3. $x^2 + 9x + 20$ ie, need find $\alpha_i L + 5 + 6$
 $\alpha_i L + 5 + 6$
 $\alpha_i L + 6 + 6$
 $\alpha_i L + 6$
 α_i

(X+4)(X+5)

4.
$$y^2 - 10y + 16$$

7.
$$x^2 + 18x + 81$$

5.
$$z^2 - z - 20$$

8.
$$v^2 - 64$$

6.
$$z^2 - 9z + 14$$

9.
$$v^2 - 16$$

Solving equations by factoring: A ving w/this is collect an Zero-Product Property:

If a*b=0 then a=0, b=0, or both a=0 and b=0. integral dimmin.

No Zero divisirs (Note if thinking round a larger of the chark of the char

Solve for the given variable.

1.
$$(w+7)(w-5)=0$$

4.
$$x^2 + 8x + 15 = 0$$

2.
$$(y-2)(y-8)=0$$

5.
$$y^2 - 5y - 14 = 0$$

3.
$$y^2 + 6y + 5 = 0$$

6.
$$x^2 + 10x + 25 = 0$$