Student: Date:		Instructor: Deb Wertz Course: MAP102 Master (Custom	ISBN) Assignment: Homework #28
1.	Factor the following trinomial.		
	$x^2 + 10x + 9$		
_	Select the correct choice below an	d, if necessary, fill in the answer box to	complete your choice.
	\bigcirc A. $x^2 + 10x + 9 = $	(Type your answer in factored form.))
	OB. The polynomial is prime.		
2.	Factor the trinomial, or state that the trinomial is prime. Check the factorization using FOIL multiplication.		
	y ² – 12y + 35		
	Select the correct choice below and, if necessary, fill in the answer box within your choice.		
	\bigcirc A . $y^2 - 12y + 35 = $		
	O B. The polynomial is prime.		
3.	Factor the trinomial completely.		
	$x^2 + x - 12$		
	Select the correct choice below an	d, if necessary, fill in the answer box wit	hin your choice.
	\bigcirc A. $\chi^2 + \chi - 12 =$		
	◯ B. The polynomial is prime.	_	
1.	Factor the following trinomial.		
	$x^2 - 5x - 50$		
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.		
	Ο Δ ν ² – 5ν – 50 –	(Type your enguer in factored form)	

- \bigcirc **A.** $x^2 5x 50 =$ _____ (Type your answer in factored form.)
- OB. The polynomial is prime.
- 5. Factor the following trinomial.

$$6y^2 - 18y + 12$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- **A.** $6y^2 18y + 12 =$ (Factor completely.)
- OB. The trinomial is prime.

6. Factor the trinomial.

$$2x^2z + 26xz + 80z$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- **A.** $2x^2z + 26xz + 80z =$ (Factor completely.)
- \bigcirc **B.** $2x^2z + 26xz + 80z$ is prime.
- 7. Factor the polynomial completely.

$$x^2 - 6x - 112$$

Select the correct choice below and fill in any answer box within your choice.

- **A.** $x^2 6x 112 =$ (Factor completely.)
- **B.** $x^2 6x 112$ is prime.
- 8. Factor the polynomial completely.

$$x^2 - 3x - 54$$

Select the correct choice below and fill in any answer box within your choice.

- \bigcirc **A.** $x^2 3x 54 =$ _____ (Factor completely.)
- **B.** $x^2 3x 54$ is prime.
- 9. Factor the polynomial completely.

$$3x^2 - 6x + 3$$

Select the correct choice below and, if necessary, fill in any answer box within your choice.

- \bigcirc **A.** $3x^2 6x + 3 =$
- **B.** $3x^2 6x + 3$ is prime.
- 10. Factor the trinomial, or state that the trinomial is prime.

$$x^2 - 12x - 45$$

Select the correct choice below and fill in any answer boxes within your choice.

- \bigcirc **A.** $x^2 12x 45 =$
- **B.** The polynomial is prime.

11. Factor the trinomial completely.

$$x^2 + 24x + 5$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- \bigcirc **A.** $x^2 + 24x + 5 =$ _____ (Factor completely.)
- O B. The polynomial is prime.

1. A. $x^2 + 10x + 9 = (x + 9)(x + 1)$ (Type your answer in factored form.)

2. A.
$$y^2 - 12y + 35 = (y - 5)(y - 7)$$

3. A.
$$x^2 + x - 12 = (x + 4)(x - 3)$$

4. A.
$$x^2 - 5x - 50 = (x + 5)(x - 10)$$
 (Type your answer in factored form.)

5. A.
$$6y^2 - 18y + 12 = _{\bf 6(y-2)(y-1)}$$
 (Factor completely.)

6. A.
$$2x^2z + 26xz + 80z = 2z(x + 8)(x + 5)$$
 (Factor completely.)

7. A.
$$x^2 - 6x - 112 = (x - 14)(x + 8)$$
 (Factor completely.)

8. A.
$$x^2 - 3x - 54 = (x - 9)(x + 6)$$
 (Factor completely.)

9. A.
$$3x^2 - 6x + 3 = 3(x - 1)^2$$

10. A.
$$x^2 - 12x - 45 = (x - 15)(x + 3)$$

11. B. The polynomial is prime.