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$$9. 24x^{12}y^{10}z^7 - 48x^{12}y^{10}z^7 - 16x^{12}y^{10}z^7$$

$$8x^{12}y^{10}z^7(8x^{12}y^{10}z^7 - 5x^{12}y^{10}z^7 - 2y^{10}z^7)$$

$$10. -4x^{10}y^{10}z^2 - 14x^{10}y^{10}z^2 - 16x^{10}y^{10}z^2$$

$$-2x^{10}y^{10}z^2(2x^{10}y^{10}z^2 + 7x^{10}y^{10}z^2 + 8z^2)$$

$$11. -15x^7y^{10}z^3 + 9x^7y^{10}z^3 - 28x^7y^{10}z^3$$

$$-3x^7y^{10}z^3(5y^{10}z^3 - 3x^7y^{10}z^3 + 7z^3)$$

$$12. 52x^{10}y^{10}z^7 - 46x^{10}y^{10}z^7 - 54x^{10}y^{10}z^7$$

$$2x^{10}y^{10}z^7(26x^{10}y^{10}z^7 - 23y^{10}z^7 - 27x^{10}z^7)$$

$$13. -42x^{12}y^{10}z^2 - 10x^{12}y^{10}z^2 - 65x^{12}y^{10}z^2$$

$$-5x^{12}y^{10}z^2(8y^{10}z^2 + 2x^{12}y^{10}z^2 + 13x^{12}z^2)$$

$$14. 35x^{10}y^{10}z^2 - 26xy^{10}z^2 - 52x^{10}y^{10}z^2$$

$$13xy^{10}z^2(3x^{10}y^{10}z^2 - 2y^{10}z^2 - 4x^{10}z^2)$$

$$15. 60x^{12}y^{10}z^2 - 48x^{12}y^{10}z^2 - 50x^{12}y^{10}z^2$$

$$10x^{12}y^{10}z^2(6x^{12}y^{10}z^2 - 4y^{10}z^2 - 5x^{12})$$

$$16. 76x^{10}y^{10}z^2 - 19y^{10}z^2 - 190x^{10}y^{10}z^2$$

$$19z^2(4x^{10}z^2 - y^{10} - 10x^{10}y^{10}z^2)$$

$$P = 7x^3y^2z^4(2x^3y^2z^4 - 5x^3y^2z^4 - 4)$$

$$D = -2x^3y^4(2x^3 - 6y^2z^4 + 11x^3yz^4)$$

$$E = -5x^3y^4z^4(3x^3y^2z^4 + 8x^3z^4 - 2y)$$

$$G = -8x^3y^4(8x^3y^2 - 4yz^4 + 3)$$

$$J = -x^3yz(2x^3y^2z^4 - 5y^2z^4 + 14xz^4)$$

$$L = 2y^2z^4(3x^3y^2z^4 - 7x^3yz^4 + 9)$$

$$Z = -2x^3y^4z^4(2x^3y^2z^4 + 7yz^4 + 8z^4)$$

$$F = 12y^2z^4(3x^3y^2z^4 + 2x^3yz^4 - 4)$$

$$D = 19x^4(4x^3z^4 - y^{10} - 10x^3y^{10}z^2)$$

$$J = 8x^3y^2z^4(8x^3y^2z^4 - 5x^3z^4 - 2y^{10}z^2)$$

$$N = -5x^3yz^4(8y^2z^4 + 2x^3y^{10} + 15x^3z^4)$$

$$M = -3x^3y^2z^4(3y^2z^4 - 3x^3y^2 + 2x^3)$$

$$O = 18xy^2z^4(3x^3y^2z^4 - 2y^{10}z^2 - 4x^3z^4)$$

$$S = 17x^4(2x^3z^4 - 3y^{10}z^4 - x^3y^2)$$

$$T = 10x^3z^4(8x^3y^2z^4 - 4y^2z^4 - 5x^3z^4)$$

$$U = 2x^3y^4z^4(26x^3y^2z^4 - 23y^{10}z^2 - 27x^3z^4)$$

Factoring using the GCF

Factor the common factor out of each expression. Be sure your final answer is in factored form.

1) $6x^2 - 3x^2$

____ (____ · ____)

2) $21x^2 + 28x^2 - 14x$

____ (____ · ____)

3) $10x^3 - 9x^2 + x$

____ (____ · ____)

4) $-9y^2 + 60$

____ (____ · ____)

Factoring Quadratics (A)

Factor each expression

1. $15x^2 + 52x + 45$

11. $6x^2 - 34x + 20$

2. $8x^2 + 26x + 20$

12. $16x^2 - 20x - 6$

3. $48x^2 + 14x + 1$

13. $7x^2 - 23x + 6$

4. $21x^2 - x - 2$

14. $7x^2 - 50x + 48$

5. $8x^2 - 25x + 18$

15. $21x^2 + 50x - 16$

6. $15x^2 - 25x - 40$

16. $12x^2 + 28x + 8$

7. $45x^2 + 46x - 63$

17. $6x^2 - 13x - 15$

8. $81x^2 + 99x + 28$

18. $28x^2 - 46x + 16$

9. $6x^2 - 21x + 9$

19. $16x^2 + 44x + 10$

10. $20x^2 - 71x + 63$

20. $21x^2 + 25x - 4$

Quiz & Worksheet - Steps for Factoring By Grouping

1. Factor the following expression:

$$4x^3 - 12x^2 + 7x - 21$$

- (x - 3)(4x^2 + 7)
- (4x^2 - 3)(x + 7)
- (x + 3)(4x^2 - 7)
- (4x - 3)(x^2 + 7)
- (4x - 3)(x^2 - 7)

2. Factor the following expression:

$$7y^2 - 14y + 9y - 18$$

- (7y + 9)(y - 2)
- (7y - 9)(y - 2)
- (y + 9)(7y - 2)
- (7y - 9)(y + 2)
- (y - 9)(7y + 2)

3. Factor the following expression:

$$4x^2 - 20x + 5x - 25$$

- (4x + 5)(x - 5)
- (4x - 5)(x - 5)
- (2x + 5)(2x - 5)
- (x + 5)(4x - 5)
- (2x - 5)(2x - 5)

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Name: _____

GCF

Factor the expression. If the expression cannot be factored, then write prime.

1) $30a^2 - 35a^3$ a. $5a^2(6a^2 - 7)$ b. $5a^2(6a^2 + 7)$	2) $20a^{11} + 5a^4$ a. $5a^4(a^7 + 1)$ b. $5a^4(a^7 - 1)$	3) $4a^4 - 36a^{10}$ a. $4a^4(1 - 9a^6)$ b. $4a^4(1 + 9a^6)$	4) $25a^2 - 2a$ a. $5a^2(5a - 1)$ b. $5a^2(5a + 1)$	5) $10a^2 - 10$ a. $10a^2(a - 1)$ b. $10a^2(a + 1)$	6) $35a^3a^2 - 35a^2a^3$ a. $35a^2(10a^3 + 10a^2)$ b. $35a^2(10a^3 - 10a^2)$	7) $20a^3 + 10a^3 + 10a^3$ a. $10a^3(3a^3 + 3a - 1)$ b. $10a^3(3a^3 + 3a - 1)$	8) $35a^3 - 35a^2 + 25a^4$ a. $5a^2(7a^3 - 7a^2 + 5a)$ b. $5a^2(7a^3 - 7a + 5)$
c. none of the three	c. prime	c. prime	c. prime	c. none of the three	c. prime	c. prime	c. prime

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