

QUIZIZZ

Homework 7.2 due Mon 3/15 *4 problems require work*

11 Questions

NAME : _____

CLASS : _____

DATE : _____

1. **WORK REQUIRED** Factor $x^2 + 7x - 30$ to identify which one of the following is one of the factors

- a) $(x + 15)$ b) $(x - 10)$
 c) $(x + 3)$ d) $(x + 10)$

2. Factor

$$n^2 + 5n - 6$$

- a) $(n - 2)(n - 3)$ b) $(n - 1)(n + 6)$
 c) $(n + 1)(n - 6)$ d) $(n + 2)(n - 3)$

3. Factor

$$a^2 - a - 12$$

- a) $(a - 4)(a + 3)$ b) $(a + 6)(a - 4)$
 c) $(a - 6)(a + 4)$ d) $(a + 4)(a - 3)$

4. Which is another way of correctly expressing

$$(x - 3)(x - 3)?$$

- a) $(x^2 - 3^2)$ b) $(x^2 - 3)$
 c) $(x + 3)(x - 3)$ d) $(x - 3)^2$

5. **WORK REQUIRED** Factor $x^2 - 8x - 128$ to identify which one of the following is one of the factors

- | | |
|--|--|
| <input type="checkbox"/> a) $(x - 64)$ | <input type="checkbox"/> b) $(x - 16)$ |
| <input type="checkbox"/> c) $(x - 32)$ | <input type="checkbox"/> d) $(x + 2)$ |

6. Factor $x^2 - 5x + 6$, to identify the two factors

- | | |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> a) $(x-1)$ | <input type="checkbox"/> b) $(x-6)$ |
| <input type="checkbox"/> c) $(x-3)$ | <input type="checkbox"/> d) $(x-2)$ |

7. Factor completely to determine all factors of the polynomial: $2x^2 - 10x - 48$

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> a) 2 | <input type="checkbox"/> b) $(x - 8)$ |
| <input type="checkbox"/> c) $(x+3)$ | <input type="checkbox"/> d) $(2x + 1)$ |
| <input type="checkbox"/> e) $(x - 4)$ | |

8. $x^2 - 16$

- | | |
|--|--|
| <input type="checkbox"/> a) Prime | <input type="checkbox"/> b) $(x - 4)(x + 4)$ |
| <input type="checkbox"/> c) $(x - 8)(x + 8)$ | <input type="checkbox"/> d) $(x - 4)(x - 4)$ |

9. Factor completely: $x^3 - 81x$

- | | |
|---|--|
| <input type="checkbox"/> a) $1(x - 81)$ | <input type="checkbox"/> b) $x(x - 81x)$ |
| <input type="checkbox"/> c) $x(x - 9)(x + 9)$ | <input type="checkbox"/> d) $x^2(1 - 9)$ |

10. **WORK REQUIRED** Simplify: $(x + 7)(x - 2)$

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> a) $x^2 + 5x - 14$ | <input type="checkbox"/> b) $x^2 + 5$ |
| <input type="checkbox"/> c) $x^2 + 5x - 9$ | <input type="checkbox"/> d) $7x - 14$ |

11. WORK REQUIRED Simplify: $(2x + 3)(x - 5)$

a) $2x^2 - 10x - 15$

c) $2x^2 - 7x - 15$

b) $2x^2 + 7x - 15$

d) $-5x - 15$