

# QUIZIZZ

## Homework 7.3 due Mon 3/22 \*3 Problems Require Work\*

10 Questions

NAME : \_\_\_\_\_

CLASS : \_\_\_\_\_

DATE : \_\_\_\_\_

1. WORK REQUIRED: Show the Big X and the trinomial factored!

Use factoring to solve:  $2x^2 - x - 15 = 0$

- |  |   |
|--|---|
| <input type="checkbox"/> a) $x = -\frac{5}{2}$ and $x = 3$ | <input type="checkbox"/> b) $x = \frac{5}{2}$ and $x = -3$  |
| <input type="checkbox"/> c) $x = \frac{5}{2}$ and $x = 3$  | <input type="checkbox"/> d) $x = -\frac{5}{2}$ and $x = -3$ |

2. WORK REQUIRED: Complete factors must be shown!

Solve:  $5x^2 - 45 = 0$

- |  |  |
|--|--|
| <input type="checkbox"/> a) $x = 3$              | <input type="checkbox"/> b) $x = -3$                         |
| <input type="checkbox"/> c) $x = 3$ and $x = -3$ | <input type="checkbox"/> d) $x = 0$ , $x = 3$ , and $x = -3$ |

3. Factor completely to determine the two factors of

$$3x^2 + 7x - 6 = 0$$

- |  |  |
|--|--|
| <input type="checkbox"/> a) $(x - 3)$  | <input type="checkbox"/> b) $(x + 3)$  |
| <input type="checkbox"/> c) $(3x - 2)$ | <input type="checkbox"/> d) $(3x + 9)$ |
| <input type="checkbox"/> e) $(x - 6)$  |  |

4. Factor completely to determine the two factors of

$$2x^2 + x = 6$$

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

5. Solve:  $4x^2 + 15x + 14 = 0$

- |  |   |
|--|---|
| <input type="checkbox"/> a) $x = \frac{7}{4}$ and $x = 2$  | <input type="checkbox"/> b) $x = -\frac{7}{4}$ and $x = 2$  |
| <input type="checkbox"/> c) $x = \frac{7}{4}$ and $x = -2$ | <input type="checkbox"/> d) $x = -\frac{7}{4}$ and $x = -2$ |

6. WORK REQUIRED: Factor a GCF and then use the Big X

Solve:  $0 = 3x^2 - 12x - 15$

- |  |   |
|--|---|
| <input type="checkbox"/> a) $x = -5$ and $x = 1$             | <input type="checkbox"/> b) $x = 5$ and $x = -1$  |
| <input type="checkbox"/> c) $x = 0$ , $x = 5$ , and $x = -1$ | <input type="checkbox"/> d) $x = -5$ and $x = -1$ |

7. Solve:  $2x^2 - 32 = 0$

- |  |  |
|--|--|
| <input type="checkbox"/> a) $x = 0$ , $x = 4$ , and $x = -4$ | <input type="checkbox"/> b) $x = 4$              |
| <input type="checkbox"/> c) $x = -4$                         | <input type="checkbox"/> d) $x = 4$ and $x = -4$ |

8. Simplify:  $(2x^2 + 3x - 4) + (7x - 12)$

- |  |   |
|--|---|
| <input type="checkbox"/> a) $2x^2 + 4x - 16$ | <input type="checkbox"/> b) $2x^2 + 10x - 16$ |
| <input type="checkbox"/> c) $2x^2 + 10x - 8$ | <input type="checkbox"/> d) $2x^2 + 10x + 16$ |

9. Simplify:  $(8y^2 - 7y - 1) - (y^2 - y + 12)$

a)  $7y^2 - 6y^2 - 13$

b)  $7y^2 - 6y - 13$

c)  $7y^2 - 8y + 11$

d)  $7y^2 + 6y + 12$

10. Simplify:  $(3x + 5)(2x - 7)$

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

b)  $5x^2 - 31x - 35$

c)  $6x^2 - 11x - 35$

d)  $-17x - 35$