

# Factoring Trinomials

## (a = 1) Worksheet

Factor the following trinomials completely

①  $x^2 - 8x - 20$

$x^2 - 10x + 2x - 20$

$x(x - 10) + 2(x - 10)$

$(x - 10)(x + 2)$

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②  $x^2 + 4x - 32$

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③  $x^2 + 7x + 6$

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④  $x^2 + 2x + 1$

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⑤  $x^2 + 2x - 35$

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⑥  $k^2 - 4k - 60$

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⑦  $x^2 - 9x + 20$

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⑧  $x^2 + 7x + 6$

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⑨  $x^2 - 2x - 80$

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⑩  $x^2 + 12x + 32$

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# Factoring Trinomials

## (a = 1) Worksheet

### Answers

①  $x^2 - 8x - 20$

$$x^2 - 10x + 2x - 20$$

$$x(x - 10) + 2(x - 10)$$

$$(x - 10)(x + 2)$$

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②  $x^2 + 4x - 32$

$$(x + 8)(x - 4)$$

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③  $x^2 + 7x + 6$

④  $x^2 + 2x + 1$

$$(x + 6)(x + 1)$$

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$$(x + 1)^2$$

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⑤  $x^2 + 2x - 35$

⑥  $k^2 - 4k - 60$

$$(x + 7)(x - 5)$$

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$$(k - 10)(k + 6)$$

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⑦  $x^2 - 9x + 20$

⑧  $x^2 + 7x + 6$

$$(x - 4)(x - 5)$$

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$$(x + 6)(x + 1)$$

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⑨  $x^2 - 2x - 80$

⑩  $x^2 + 12x + 32$

$$(x + 8)(x + 10)$$

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$$(x + 8)(x + 4)$$

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