

MA 121-001 Prerequisite Assessment

There are no right or wrong answers, so please respond honestly. This assessment is purely informative for students to determine if they are prepared for MA 121.

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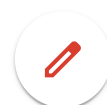
*** Required**

State your first name.

Your answer

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Your answer



Adding, Subtracting, Multiplying, and Dividing Fractions *

If you need practice on this topic, click any of the following links for additional materials:

[Adding/Subtracting Fractions Practice](#)

[Multiplying Fractions Practice](#)

[Dividing Fractions Practice](#)

Example:

$$\frac{1}{2} + \frac{3}{4}$$

- ☐ I've never heard of this.
- ☐ I know I've seen it but I don't remember.
- ☐ I can do it but sometimes I get stuck.
- ☐ I am confident I can do it well.
- ☐ I know it so well I can help my peers.



Factoring quadratic equations *

If you need practice on this topic, click any of the following links for additional materials:

[Factoring Practice \(Lessons\)](#)

[Factoring Problems \(Problems 7-15\)](#)

Example:

$$x^2 + 4x - 5 = (x + 5)(x - 1)$$

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Expanding out factored expressions. *

If you need practice on this topic, click any of the following links for additional materials:

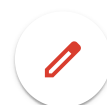
[Expanding Factored Expressions \(Lessons\)](#)

[Expanding Factored Expressions Practice \(Problems 4 - 9\)](#)

Example:

$$(x - 6)(3x - 1) = 3x^2 - 18x - x + 6 = 3x^2 - 19x + 6$$

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Given an equation, solve for x. *

If you need practice on this topic, click any of the following links for additional materials:

[Solving Basic Equations](#)

[Solving Equations with Variables on Both Sides](#)

Example:

$$3x - 4 = 2$$

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Given a function $f(x)$, evaluate it at a specific value. *

If you need practice on this topic, click any of the following links for additional materials:

[Functions Practice](#)

Example: Find $f(4)$ if

$$f(x) = x^3 + 2x$$

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- ☐ I can do it but sometimes I get stuck.
- ☐ I am confident I can do it well.
- ☐ I know it so well I can help my peers.



Using exponent rules to simplify expressions. *

If you need practice on this topic, click any of the following links for additional materials:

[Multiplying and Dividing Exponents](#)

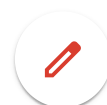
[Exponent Properties with Parentheses](#)

[Exponent Properties Review \(article\)](#)

Example:

$$\frac{2^5}{2^3} = 2^{5-3} = 2^2$$

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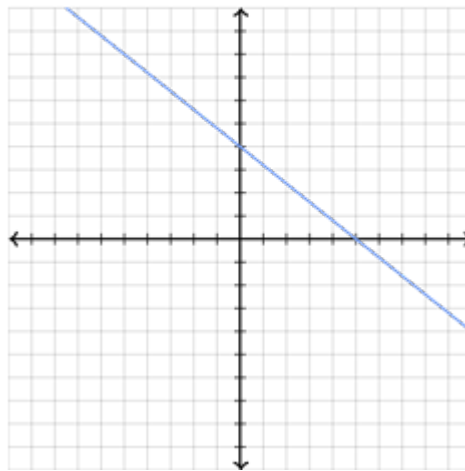
Given the equation of a line, graph it on the x-y plane without using a calculator. *

If you need practice on this topic, click any of the following links for additional materials:

[Graphing Lines Practice](#)

Example:

$$y = -\frac{4}{5}x + 4$$



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- ☐ I know it so well I can help my peers.

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