

# Math Assignment Tool



Free Math App



**Give your students feedback,  
meaningfully and efficiently.**



# Students Show Step-by-Step Work

Students can start with a blank Free Math document, copying down and working through problems just as they would in paper notebooks.

Students save their work as a file and submit it through an LMS in response to an assignment.

The screenshot shows a software interface for solving a math problem. On the left, there is a control panel with a text input field for the problem number, a "Next Step - Enter Key" label, and three buttons: "New Blank Step", "Undo", and "Redo". Below these is a "Clone Problem" button. The main area displays a sequence of five steps, each with a blue "++" button on the left and a grey "x" button on the right. The steps show the following mathematical expressions:

- Step 1:  $\sqrt{16} - 9\left(\frac{2}{3}\right)^2 + \frac{4}{5-12}$
- Step 2:  $\sqrt{16} - 9\left(\frac{2}{3}\right)^2 + \frac{4}{-7}$
- Step 3:  $\sqrt{16} - 9\left(\frac{4}{9}\right) + \frac{4}{-7}$
- Step 4:  $4 - 9\left(\frac{4}{9}\right) + \frac{4}{-7}$
- Step 5:  $4 - 9(4) + \frac{4}{-7}$



# Embrace Visual Learning

Students can include images in their solutions.

Including quickly snapping a picture of written work with their webcam.

Finished Cropping Cancel

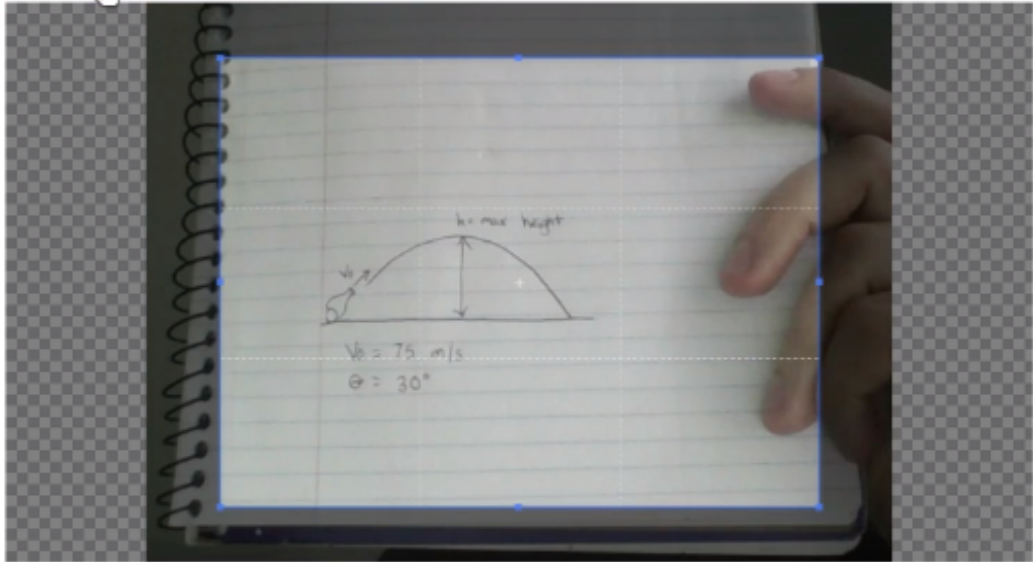


Image ++

If your final answer is a number or expression, type it in the final box below.  
Otherwise you can just move to the next problem.

Math ++  X



# Simultaneously Review All Assignments

Complete solutions are shown, grouped by similar final answer.

You can award partial credit and give feedback to students that need help.

You don't need to type in an answer key, Free Math just provides an organized view of all student work.

**student\_submission\_demo/nick\_j.math**  
Score  out of 6 [Full Points](#)  
[Apply to Ungraded](#) [Apply to All](#)  
Feedback  
[Show Work](#) [Simple Mistake](#)  
[Let's Talk](#) [Not Simplified](#) [Sig Figs](#)  
Click a button for quick feedback or type custom feedback here.  
 $-23c - 23d$

**student\_submission\_demo/angela\_r.math**  
Score  out of 6 [Full Points](#)  
[Apply to Ungraded](#) [Apply to All](#)  
Feedback  
[Show Work](#) [Simple Mistake](#)  
[Let's Talk](#) [Not Simplified](#) [Sig Figs](#)  
Click a button for quick feedback or type custom feedback here.  
[Mark Image Feedback](#)  
  
 $-23c - 23d$



# Analytics Show Where Students Struggled

Give feedback on the most impactful problems first,  
everything else gets completion points.



## No Accounts Or Downloads Required

The entire experience runs right in your web browser.

Assignments and grading sessions save directly to your browser to files in your downloads folder. Files can also be stored in any cloud system like OneDrive, Dropbox, OneDrive, etc.

The files can easily be collected in any LMS system together and loaded for grading. After grading, the system also easily provides an individual feedback report for each student.



Blackboard



D2L





# Great for Many Areas of Math

## Algebra

$$\frac{1}{x-4} + \frac{2}{x^2-16} = \frac{3}{x+4}$$

$$\frac{1}{x-4} + \frac{2}{(x-4)(x+4)} = \frac{3}{x+4}$$

$$\frac{1}{x-4} \cdot \left(\frac{x+4}{x+4}\right) + \frac{2}{(x-4)(x+4)} = \frac{3}{x+4} \cdot \left(\frac{x-4}{x-4}\right)$$

$$\frac{1(x+4)}{(x-4)(x+4)} + \frac{2}{(x-4)(x+4)} = \frac{3(x-4)}{(x+4)(x-4)}$$

$$1(x+4) + 2 = 3(x-4)$$

$$x + 6 = 3x - 12$$

$$x + 18 = 3x$$

$$18 = 2x$$

$$9 = x$$

## Calculus

$$\int x \ln x dx$$

$$u = \ln x$$

$$dv = x dx$$

$$du = \frac{1}{x} dx$$

$$v = \frac{x^2}{2}$$

$$\int x \ln x dx = \frac{x^2}{2} \ln x - \int \frac{x^2}{2} \cdot \frac{1}{x} dx$$

$$\frac{x^2}{2} \ln x - \frac{1}{2} \int x dx$$

$$\frac{x^2}{2} \ln x - \frac{1}{2} \left(\frac{x^2}{2}\right) + c$$

$$\frac{x^2}{2} \ln x - \frac{1}{4} x^2 + c$$

## Physics

A ball is thrown from 1 m above the ground.

It is given an initial velocity of 20 m/s

At an angle of 40 degrees above the horizontal

Find the maximum height reached

And velocity at that point

$$x(t) = v \cos(\theta) t = 20 \cos(40) t = 15.3t$$

$$y(t) = y_0 + v \sin(\theta) t - \frac{9.8t^2}{2}$$

$$y(t) = 1 + 20 \sin(40) t - 4.9t^2$$

$$y(t) = 1 + 12.9t - 4.9t^2$$

$$v_y(t) = v \sin(\theta) - 9.8t$$

$$v_y(t) = 12.9 - 9.8t$$

$$\text{max height at } v_y(t) = 0$$





Get Started

<https://freemathapp.org>

Free Math is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation



## Students Start Here


## Demo Teacher Grading

### Students

New Assignment

Create

Open Assignment


Open from Drive 

Open a Free Math file from your device


Choose File

Select a Free Math file you previously saved, or one that your teacher returned to you after grading.

### Teachers

New Classroom Assignment 

Grade Assignments

Grade Classroom Assignment 

Open a zip file from your device

Choose File

Select a zip file full of student assignments. Zip files are generated when downloading assignment files from your LMS in bulk.

[LMS Integration Info](#)



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SR.TEACHER  
GOVT.SR.SEC.SCHOOL  
HARMARA  
JHOTWARA CITY  
JAIPUR ,RAJASTHAN

