

Cabri Junior

Starting Cabri Jr.

Press [APPS], Scroll Down to **Cabri Jr**. and press [ENTER].

Press any key to start the dynamic geometry calculator application.

Cabri Jr. Menus

The softkeys, the top row of calculator keys, drive the Cabri Jr menus.



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The top left corner of the screen shows the active tool. The tool for measuring distance and length is shown. In the screens above, you will see other active tools.	To back out of a menu without selecting an option press <u>CLEAR</u> . This also clears the active tool and returns the user to the Cabri Jr. sketch. Notice the pointer is a black arrow	This message pops up on your screen when your calculator has been idle too long. Press ENTER to continue.
(ML) FS Hide/Show P Alph-Num Display Heat <mark>D.S.Lensth</mark> Cool Area Cald Angle Cled Slope	k	Press one of the F1, F2, F3, F4 or F5 top Keys! Navi9ate then with Cursorkeys 4,4,4,4,+

Constructing a Triangle

To construct a triangle press <u>WINDOW</u> and press to scroll down to Triangle , press <u>ENTER</u> .	The triangle tool becomes active and the cursor becomes a pencil, which can be moved by pressing and holding the arrow keys. The pencil cannot move diagonally. Move the pencil tip to a region in the bottom right corner.	Press ENTER to mark the first vertex. Then push and hold I to move the pencil tip horizontally to a region in the left corner.
F2 Point F Line Se9ment Circ1e TPion91e Quad.	△ ₽	₽

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Highlighting and Grabbing Objects

Follow the steps in the previous section, Constructing a Triangle, to construct a triangle.



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Move the pointer over a side to highlight it. The side will begin to shimmer. Press to grab the side. Press I to move the side to the right. Note the vertex on the left side of the screen does not move.	Press ENTER or CLEAR to release the side. The hand will change to a hollow pointer. Wait until all sides are shimmering and then press	Press the arrow keys to centre the triangle. Press <u>CLEAR</u> to release the triangle. The dashed lines become solid again. Move the pointer off the triangle and the hollow pointer becomes a solid pointer.

Adding Labels

Construct your own triangle by following the instructions above in the section titled, "Constructing a Triangle".



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Press ENTER to Complete the label. Press the arrow keys to move the label tool to the bottom right vertex. Watch for the shimmering point next to the label tool.	Press ENTER to start the label. Press APPS to insert the letter B. Press ENTER to finish the label.	Move to the left-most vertex. Press ENTER. Press PRGM to insert the letter C. Press ENTER. Press CLEAR to de-activate the label tool.
A	A B	and
The label, C, is under the hollow pointer but inside the triangle. Press to grab it. Move the label outside the triangle by pressing 1 . Press <u>CLEAR</u> to release the label. Press 1 until the pointer is off the label.		
A B B		



Finding Measures (Angles and Distances)

Construct a triangle by following the instructions in the section titled, "Constructing a Triangle".



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Date: _____



Formatting Issues

Sometimes an error occurs. You may wish to Undo or Delete the error.

UNDO	DELETE
To undo, press Y= and scroll down to Undo . Press ENTER and the last item will be undone.	To delete an item there must not be any tool active. There should be no picture in the upper left corner of the screen. If there is, press <u>CLEAR</u> to de-activate the tool. Move the pointer over the object you wish to delete and press <u>DEL</u> . The object and anything attached to it will be deleted.
F1 Animate Undo Help New Dpen Save Save 3 Quit .5	

Sometimes you wish to increase/decrease the accuracy of the measures used.

INCREASE ACCURACY	DECREASE ACCURACY
To increase the accuracy of a measurement there must not be any tool active. There should be no picture in the upper left corner of the screen. If there is, press <u>CLEAR</u> to de-activate the tool. Move the pointer over the value of the measurement you wish to change and press <u>2nd</u> +. Each time you press this combination of keys the accuracy will be improved by 1 decimal place to a maximum of 2 decimal places.	To decrease the accuracy of a measurement there must not be any tool active. There should be no picture in the upper left corner of the screen. If there is, press CLEAR to de-activate the tool. Move the pointer over the value of the measurement you wish to change and press 2nd [-]. Each time you press this combination of keys the accuracy will be decreased by 1 decimal place to a minimum of zero decimal places (whole number).
6.72 71.25* 3.47 C 30.38* 78.37* 6.50 B	6.7 71.3° 30.4° 78.4° 8 6.5 8

Date:

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Sometimes you wish to save your file.



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Constructing a Right Triangle



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Press WINDOW, scroll to Point , if necessary, press), scroll to Point on and press ENTER to activate the Point on tool.	Move the pencil pointer using the arrow keys to the perpendicular line close to the right side of the screen. The line will shimmer.	Press ENTER to construct a point at the tip of the pencil. Press CLEAR to deactivate the Point on tool. The dashed line will become a solid line. Press and hold to move the pointer off the point.
Point Point Line Segme <mark>Intersection</mark> Circle Triangle Quad.		
To hide the perpendicular line press GRAPH, scroll to Hide/Show , if necessary, and press ENTER to activate the Hide/Show tool.	Move the regular pointer to the perpendicular line. It will change to an eraser tool when it is over the line. The line will begin to shimmer. Press ENTER to hide the line. The dashed line changes to a dotted line.	Press CLEAR to deactivate the tool and the dotted line disappears. The perpendicular line is hidden.
F5 Hister/Show > Alph-Dum Display Heasure > Coord. & Eq. Calculate Clear >	₽ŋ 	

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Graphing Points

If there is another image on your calculator screen when you start Cabri Jr., press Y=, scroll down to New and press ENTER.	If asked to save changes press so that the No button is highlighted. Press <u>ENTER</u> to begin a new image.	To turn the axes on, press GRAPH, scroll to Hide/Show , if necessary and press • . Press to highlight Axes and press ENTER to activate the grid.
F1 Animate Undo Help Help Inco Dpen Save Save Save as Quit	F1 Animato Save chan9es? No+ No+ Quit	F5 Histere Object Alph-1 Axes Display Heasure Heasure Coord. & Eq. Calculate Clear

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To construct a line press <u>WINDOW</u> , scroll to Line and press <u>ENTER</u> to activate the Line tool.	Move the pencil pointer to Quadrant 2 and press ENTER to mark the first point. Press and hold → to move the pencil pointer to Quadrant 1. Press and hold → to move the pencil pointer up so the line is not horizontal.	Press ENTER to mark another point on the line. The dotted line will become a solid line. Press CLEAR to deactivate the Line tool.
F2 Point + Ling Segment Circle Triangle - Quad.		
Create a line parallel to the <i>x</i> -axis through the point in Quadrant 2. Press ZOOM, scroll to Parallel and press ENTER to activate the Parallel tool.	Move the pencil pointer over the point in Quadrant 2 so the point shimmers. Press ENTER to select it. Move the pencil pointer over the <i>x</i> -axis so the pointer changes to a solid horizontal arrow pointer. The line will shimmer.	Press ENTER to select the <i>x</i> -axis. A horizontal line will be created through the point in Quadrant 2.
F3 Perp. Perp. Bis. Perp. Bis. Angle Bis. Hidpoint Compass Locus		

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The pointer becomes a solid horizontal arrow. The Slope tool is active. Press ENTER to select the line and the measure will appear with a hand attached. Use the arrow keys to move the slope measure to the top right corner of the screen. Press ENTER to release the slope measure.	Press ENTER or CLEAR. Measure the length of the vertical line segment of the right triangle (RISE). Press GRAPH. Since Measure is already highlighted, press ▶ to get another menu. Scroll to D. & Length and press ENTER.	Move the pointer to the top- most point of the vertical leg of the triangle. Press ENTER. Move to the bottom-most point of this leg and press ENTER. The length will appear with a hand attached. Move the measure outside the triangle and press ENTER.
	KML F5 0.2 Hide/Show P Alph-Num Display Hen Distlay Cool Ared Cald Angle Cled Slope	0.2 0.9
Move the pointer to the left- most point of the horizontal leg of the triangle. Press ENTER. Move to the right-most point of this leg and press ENTER. Move the measure outside the triangle and press ENTER. Press CLEAR.	Move the pointer over to each value and press 2nd +. Keep pressing these keys until 2 decimal places are seen. If a measure is a whole number the calculator will not show any digits after the decimal point.	To calculate the value of the ratio rise over run, press <u>GRAPH</u> , scroll to Calculate and press <u>ENTER</u> to activate the Calculate tool.
0.2 0.9	0.22	F5 0.22 Hide/Show ⊨ Alph-Num Display Heasure ⊨ Coord.& Eq. Clear ⊨

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Press ENTER to release the equation. Press CLEAR to deactivate the tool. Move the pointer over top of the equation and press 2nd + to increase the accuracy to two decimal places. Note that the value of slope is seen in the equation.	
0.56 1.50 2.70 <u>VR0.56x+0.92</u> 0.56	