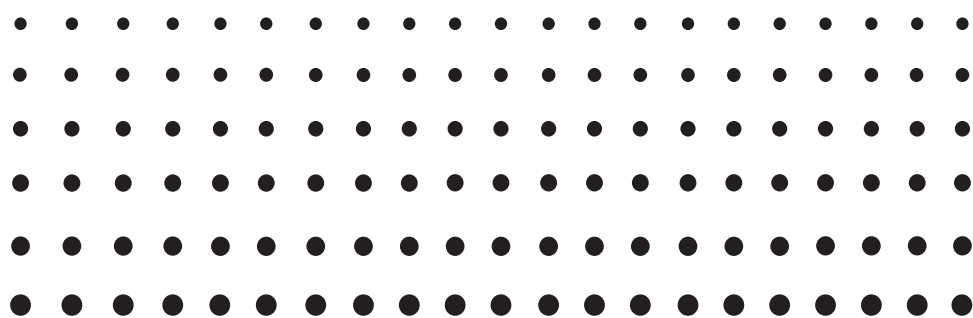


**Für ClassPad II Serie**

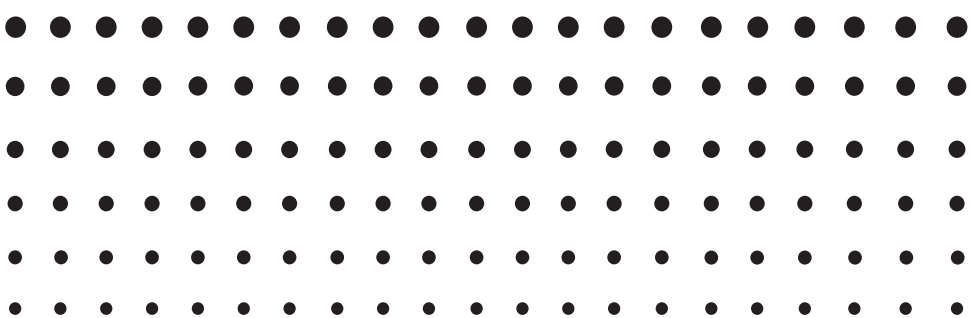
DE



# *CASIO ClassPad App*

**(für Android, für iOS)**

## ***Bedienungsanleitung***



Internet-Adresse der CASIO Schulungs-Website

<https://edu.casio.com>

Bedienungsanleitungen sind in diversen Sprachen verfügbar unter

<https://world.casio.com/manual/calc/>

# Einleitung

- Sie können die ClassPad App dazu verwenden, Programme und eActivities unter Benutzung der gleichen Befehle wie auf dem ClassPad zu entwickeln. Sie können Ihre Programme und eActivities auf Ihrem Mobilgerät speichern.
- Die ClassPad App besitzt die folgenden Fähigkeiten.
  - ClassPad-Emulation, die Sie ClassPad-Operationen auf Ihrem Mobilgerät ausführen lässt
  - Kopieren (in die Zwischenablage) des ClassPad-Emulationsbildschirms
  - Kopieren und Einfügen von Daten (Text, Werte, Ausdrücke usw.) zwischen ClassPad App und anderen Applikationen

## **Hinweise**

- Näheres zur Bedienung des On-Screen-ClassPad-Emulators finden Sie in der Bedienungsanleitung des ClassPads.
- Die in dieser Bedienungsanleitung verwendeten Anzeigebispiele dienen nur der Veranschaulichung. Text und Werte, die tatsächlich im Display erscheinen, können von den in dieser Bedienungsanleitung gezeigten Beispielen abweichen.

## **Hinweise**

- Aktuelle Informationen über die Systemanforderungen finden Sie auf unserer Website unter der nachstehenden URL: <https://edu.casio.com/requirements/app/>
- Android, Gmail und Chrome sind Marken oder eingetragene Marken von Google LCC.
- iOS ist eine Marke oder eingetragene Marke von Cisco Systems, Inc. in den Vereinigten Staaten.
- Apple ist eine in den USA und anderen Ländern eingetragene Marke von Apple Inc.
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- Beachten Sie, dass die Zeichen für Marken <sup>TM</sup> und eingetragene Marken <sup>®</sup> in der vorliegenden Bedienungsanleitung nicht verwendet werden.

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# Kapitel 1

## ClassPad App-Übersicht

Die ClassPad App bildet einen virtuellen ClassPad auf dem Display Ihres Mobilgeräts ab, über den nahezu alle beim ClassPad verfügbaren Operationen möglich sind. Dieser Abschnitt erläutert die Unterschiede in der Bedienung in der ClassPad App und am ClassPad sowie zwischen den zwei ClassPad App-Modi.

---

## Unterschiede zwischen den Funktionen der ClassPad App und den Anwendungen des ClassPads

Nachstehend ist beschrieben, wie sich die Funktionen der ClassPad App von den Anwendungen des ClassPads unterscheiden.

- Bestimmte ClassPad-Einstellungen und -Funktionen, die bei Verwendung auf einem Mobilgerät nicht erforderlich sind (z.B. Touchpanel-Kalibrierung), sind in der ClassPad App gesperrt. Wenn versucht wird, eine gesperrte Einstellung oder Funktion aufzurufen, erscheint die Meldung „Unavailable“ im Display.



- Die Anwendung E-CON3 wird von der ClassPad App nicht unterstützt.

---

## ClassPad App-Daten

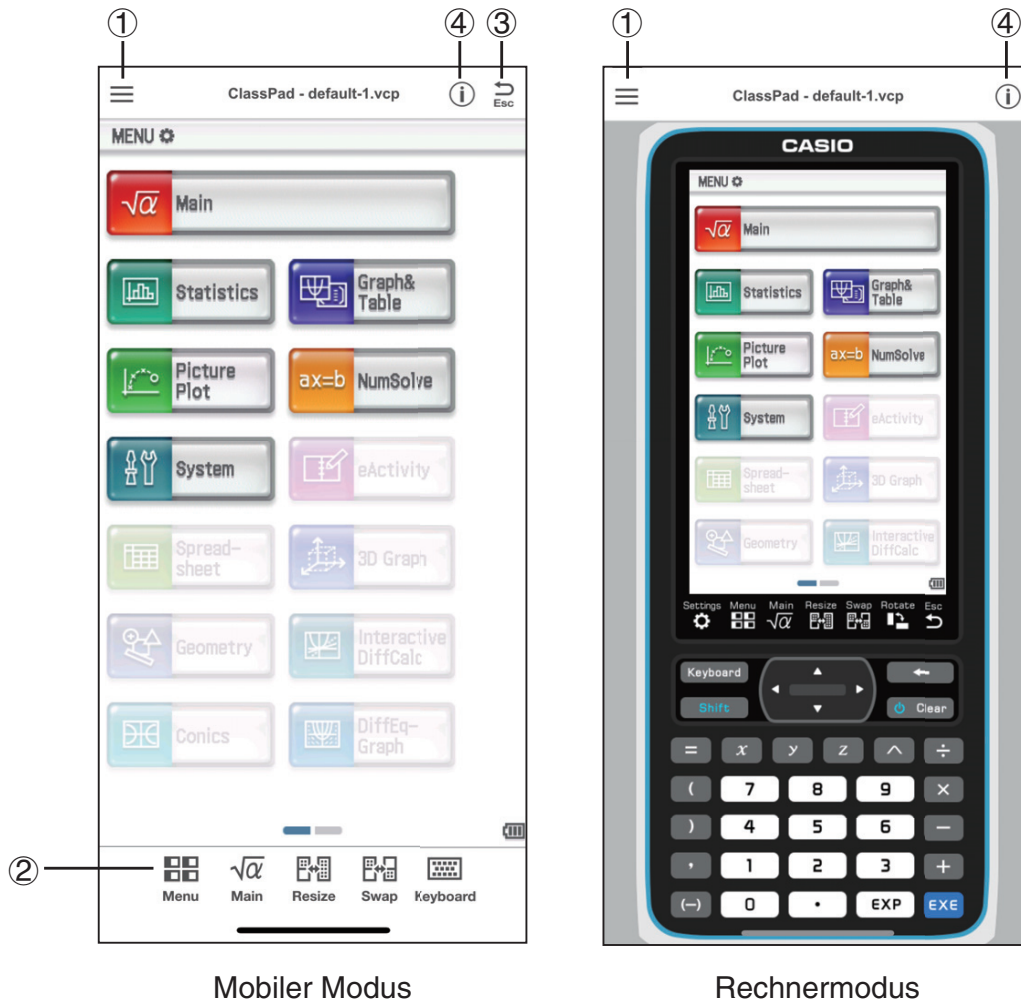
Der ClassPad speichert eActivity-Daten in einem Speicherbereich und alle anderen Daten (Applikationsdaten und Variablen) in einem getrennten Speicherbereich. Das Speichern der eActivity-Daten erfolgt im „eActivity-Bereich“ und das der anderen Daten im „Hauptspeicher“. Näheres dazu siehe ClassPad-Bedienungsanleitung.

ClassPad App speichert beide Datenarten in Dateien des Formats „virtual ClassPad“ (.vcp) auf Ihrem Mobilgerät. Unter den anfänglichen Vorgabeeinstellungen wird automatisch eine Datei namens „default.vcp“ angelegt, die als „aktives Dokument“ von ClassPad App dient.

# Displaymodus der ClassPad App

Die ClassPad App hat zwei Displaymodi: einen Mobilmodus und einen Rechnermodus.

- Der Rechnermodus zeigt ein virtuelles ClassPad an, das fast genau so aussieht wie Ihr ClassPad-Gerät.



① Die Menütaste (☰) ... Zeigt das Ausklappmenü an.

② Tableiste



Keyboard ... Blendet eine Software-Tastatur unten auf dem Display ein oder aus.

Wie die folgenden Symbole auf der Ikon-Leiste des ClassPads:  $\text{☰}$ ,  $\sqrt{\alpha}$ ,  $\text{☐☐}$ ,  $\text{☐☐}$ ,  $\text{☐☐}$ ,  $\text{☐☐}$ .

③ Escape-Taste ( $\text{↵}$ ) ... Wie die folgenden Symbole auf der Ikon-Leiste des ClassPads:  $\text{↵}$ .

④ Informationstaste (i) ... Zeigt einen Informationsbildschirm an.

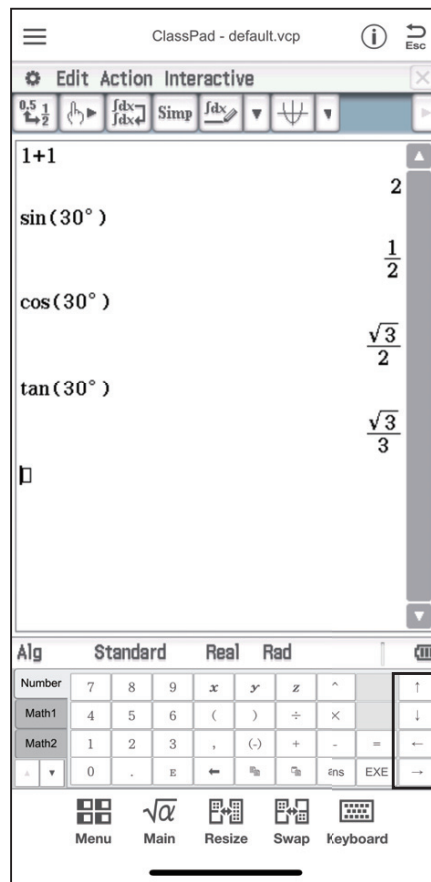
## ■ Zum Aktivieren des Mobilmodus oder des Rechnermodus

1. Tippen Sie auf ☰ - [Window].

2. Tippen Sie auf [Mobile Mode] oder [Calculator Mode].

## ■ Zur Verwendung der Software-Tastatur (nur im Mobilien Modus)

Tippen Sie auf  in der Tableiste, um eine Software-Tastatur wie unten dargestellt anzuzeigen.



Cursortasten

- Die Cursortasten entsprechen denen des ClassPads.
- Sie können sowohl das aktuelle Tastenset als auch das der ClassPad-Software-Tastatur ändern.

Number	7	8	9	x	y	z	^	↑
Math1	4	5	6	(	)	÷	×	↓
Math2	1	2	3	,	(-)	+	-	←
	0	.	E	←	→	ans	EXE	→

[Number]

Number	Line	√	π	⇒	log	↑	
Math1	e^x	ln	x^2	x^-1	ln x	↓	
Math2	sin	cos	tan	°	°	←	
	( )	( )	←	→	ans	EXE	→

[Math1]

Number	Line	√	π	⇒	i	∞	↑
Math1	e^x	ln	ln	f	f	↓	
Math2	sin	cos	tan	°	°	←	
	θ	t	←	→	ans	EXE	→

[Math2]

Math3	Line	√	π	⇒	i	∞	↑
Trig	Defn	f	g	solex	dSlv	'	↓
Var	<	>	()	()	≤	≥	=
	≠	∠	←	→	ans	EXE	→

[Math3]

Math3	Line	√	π	⇒	i	∞	↑
Trig	sin	cos	tan	sin^-1	cos^-1	tan^-1	θ
Var	sinh	cosh	tanh	*	r	sinh^x	coth^x
	↑	←	→	ans	EXE	→	

[Trig]

Math3	a	b	c	d	e	f	g	h	↑
Trig	i	j	k	l	m	n	o	p	↓
Var	q	r	s	t	u	v	w	CAPS	←
	x	y	z	←	→	ans	EXE	→	

[Var]

Catalog	A	B	C	D	E	F	G	H	All	↑
abc	a	b	c	d	e	f	g	h	i	↓
Advance	abExpR	abExpReg	INPUT	←						
	EXE	→								

[Catalog]

←	1	2	3	4	5	6	7	8	9	0	-	↑	abc
Space	q	w	e	r	t	y	u	i	o	p	@	↓	αβγ
EXE	a	s	d	f	g	h	j	k	l	;	:	←	Math
→	↑	z	x	c	v	b	n	m	,	.	CAPS	→	Symbol

[abc]

Catalog	Line	↑							
abc	int	!	nPr	nCr	an	bn	cn	rSlv	↓
Advance	F <sup>2</sup>	F <sup>3</sup>	L <sup>2</sup>	L <sup>3</sup>	Γ	+1	+2	n	←
	∫	∫	H	←	→	ans	EXE	→	

[Advance]

# Kapitel 2

## ClassPad App-Bedienung

Dieser Abschnitt erläutert die im Mobilmodus und im Rechnermodus der ClassPad App ausführbare Bedienung.

---

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### Kopieren und Einfügen

#### ■ Alphanumerischen Text aus der Anzeige in Zwischenablage kopieren

1. Wählen Sie in der ClassPad App den Text aus, den Sie kopieren möchten.
2. Tippen Sie auf  $\equiv$  - [Edit] - [Copy Special] - [Unicode].
  - Dies kopiert den in Schritt 1 gewählten Text in die Zwischenablage (als Unicode-Text).
  - Anschließend können Sie den kopierten Text dann in eine andere Applikation kopieren (als Unicode-Text).

#### ■ Text aus der Zwischenablage in die ClassPad App einfügen

1. In anderen Anwendungen kopieren Sie den gewünschten Text in die Zwischenablage.
2. Öffnen Sie in der ClassPad App die ClassPad-Applikation, in die der Text aus der Zwischenablage eingefügt werden soll.
3. Tippen Sie auf  $\equiv$  - [Edit] - [Paste Special].
  - Dies fügt den Text aus der Zwischenablage in die ClassPad App ein.

#### **Hinweise**

„Paste Special“ erkennt den Inhalt der Zwischenablage und fügt diesen als Text oder MathML-Daten ein.

Mit „Paste Special“ können Sie Text oder MathML-Daten einfügen, die von anderen Applikationen erzeugt wurden.

#### **Wichtige Warnung**

Wenn der ClassPad in der Zwischenablage MathML-Daten erfasst, versucht er diese im 2D-Math-Format (natürliches Eingabeformat) einzufügen, ohne Sie vorher zu warnen. Dabei ist nicht gewährleistet, dass die eingefügte Form mit dem identisch ist, was aus anderen Applikationen kopiert wurde.

---

# Screenshot speichern

## ■ Speichern eines Screenshots

1. Zeigen Sie den Bildschirm an, dessen Bild Sie speichern möchten.
2. Tippen Sie auf ≡ - [Edit] - [Capture Screen].

### *Tipp*

- Wenn Sie nur das aktive Fenster speichern möchten, tippen Sie in Schritt 2 auf Folgendes: ≡ - [Edit] - [Capture Current Panel].

---

# Handhabung von vcp-Dateien (New, Open, Save, Save As, Send)

Dieser Abschnitt beschreibt, wie bei vcp-Dateien die nachstehenden Vorgänge in der ClassPad App abgewickelt werden: New (Neu), Open (Öffnen), Save (Sichern), Save As (Speichern als), und Send (Senden).

## ■ Neue vcp-Datei erstellen

1. Tippen Sie auf ≡ - [File] - [New].
2. Geben Sie auf das Feld „File Name“ den Namen der neuen Datei ein.
3. Tippen Sie auf [Save].
  - Dies erzeugt eine neue vcp-Datei und macht diese zum aktiven Dokument.

## ■ Bestehende vcp-Datei öffnen

1. Tippen Sie auf ≡ - [File] - [Open].
2. Wählen Sie die zu öffnende Datei und tippen Sie dann auf [Open].
  - Dies öffnet die gewählte Datei und macht sie zum aktiven Dokument.

## ■ Aktuell geöffnete vcp-Datei speichern

Tippen Sie auf ≡ - [File] - [Save].

### *Hinweis*

Das aktuell aktive Dokument wird beim Schließen der ClassPad App automatisch gesichert. Beim nächsten Starten der ClassPad App erscheint automatisch wieder das aktive Dokument, das bei der letzten Sitzung geöffnet war.

## ■ Aktuell geöffnete vcp-Datei unter einem anderen Namen speichern

1. Tippen Sie auf ≡ - [File] - [Save As].
2. Geben Sie auf das Feld „File Name“ den Namen der neuen Datei ein.



3. Tippen Sie auf [Save].

- Dies speichert die aktuell geöffnete vcp-Datei unter dem neuen Namen und macht die neue Datei zum aktiven Dokument.

## ■ Anhängen einer vcp-Datei an eine E-Mail

1. Tippen Sie auf ☰ - [File] - [Send].

- Dies zeigt das Sendedialogfeld an.

2. Wählen Sie die zu sendende Datei aus und tippen Sie auf [Open].

- Dadurch wird das E-Mail-Programm mit der angehängten Datei geöffnet.

### **Hinweis**

- Wenn das Mobilgerät, das die E-Mail empfängt, die ClassPad App installiert hat, wird beim Öffnen der Datei die ClassPad App gestartet. Diese Funktion ist jedoch auf die folgenden E-Mail-Programme beschränkt.

iOS: Standard-E-Mail-Programm

Android: Gmail via Chrome

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## Löschen des Hauptspeichers (Reset)

### ■ Alle Daten löschen (außer eActivity-Dateien)

1. Tippen Sie auf ☰ - [File] - [Reset].

- Hierdurch erscheint ein Bestätigungs-Dialogfenster mit der Meldung „Reset Memory? Are you sure?“.

2. Zum Löschen des Speichers auf [Yes] tippen. Um den Vorgang zu annullieren, ohne Daten zu löschen, auf [No] tippen.

---

---

## Erzeugen von MathML-Daten

ClassPad App kann algebraische Ausdrücke und Text, die Sie mit der Main-Applikation, eActivity-Applikation oder anderen Applikationen eingeben haben, als eine MathML-Datei (.mml) ausgeben. Sie können auch algebraische Ausdrücke und Text als MathML-Daten (Inhalt, Darstellung oder kombiniertes Format) in die Zwischenablage kopieren.

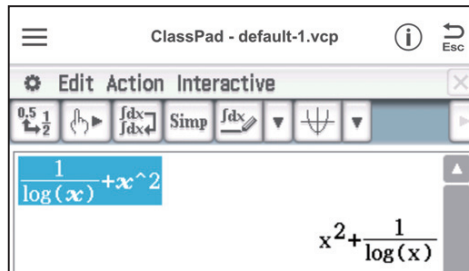
### ■ Ausgewählten algebraischen Ausdruck in eine MathML-Datei exportieren

**Beispiel:** Mit der Main-Applikation eingegebenen algebraischen Ausdruck in eine MathML-Datei ausgeben

1. Tippen Sie auf ☰ - [Application] - [Main], um die Main-Applikation zu starten.

2. Geben Sie den algebraischen Ausdruck ein, den Sie an die MathML-Datei ausgeben möchten.

3. Wählen Sie den Ausdruck aus.



4. Tippen Sie auf  $\equiv$  - [File] - [Export MathML].

5. Tippen Sie den Dateinamen ein und tippen Sie dann auf [Save].

- Dies speichert den in Schritt 3 gewählten Ausdruck als eine MML-Datei.

### ■ Ausgewählten algebraischen Ausdruck als MathML-Daten in Zwischenablage kopieren

1. Wählen Sie den Ausdruck aus, den Sie kopieren möchten.

2. Tippen Sie auf  $\equiv$  - [Edit] - [Copy Special] - [MathML].

3. Tippen Sie im Untermenü auf den gewünschten Punkt.

Zum Kopieren von Daten mit MathML-Markup dieses Typs:	Diese Option wählen:
Inhalt • Inhalts-Markup stellt die mathematische Struktur dar.	Content
Form • Darstellungs-Markup bildet die Notationsstruktur ab.	Presentation
Kombiniert • Bei kombinierter Verwendung wird, soweit möglich, Inhalts-Markup verwendet. Wo dies nicht möglich ist, erfolgt Darstellungs-Markup.	Combined

- Weitere Informationen über Inhalts- und Darstellungs-Markup bei MathML finden Sie in den entsprechenden Internet- und sonstigen Publikationen.

---

## Kopieren von algebraischen Ausdrücken und Text als Unicode-Text

Nach dem nachstehenden Vorgehen können Sie Text oder einen algebraischen Ausdruck, den Sie in der ClassPad-Applikation gewählt haben, als Unicode-Text in die Zwischenablage kopieren.

### ■ Algebraische Ausdrücke oder Text als Unicode-Text kopieren

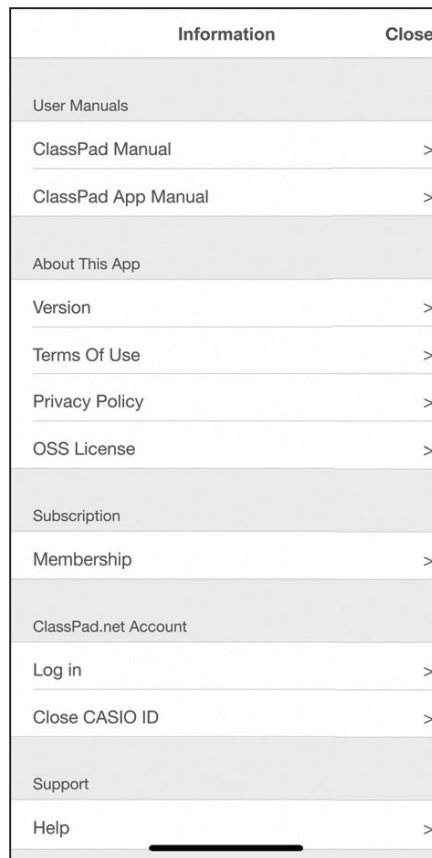
1. Wählen Sie den Ausdruck oder Text aus, den Sie kopieren möchten.

2. Tippen Sie auf  $\equiv$  - [Edit] - [Copy Special] - [Unicode].

- Dies kopiert den gewählten Ausdruck oder Text als Unicode-Text in die Zwischenablage.
- Sie können den kopierten Text in eine andere Applikation einfügen, die Textbearbeitung unterstützt.

# Informationsbildschirm

Das Tippen auf die Informationstaste ( **i** ) zeigt einen Bildschirm wie den unten dargestellten an.



Schließt den Informationsbildschirm.

Um dies auszuführen:	Wählen Sie:
<b>Bedienungsanleitungen</b>	
ClassPad-Anleitungen öffnen	ClassPad Manual
ClassPad App-Anleitungen öffnen	ClassPad App Manual
<b>Über diese App</b>	
ClassPad App-Version und weitere Informationen anzeigen	Version
Informationen zu den Nutzungsbedingungen anzeigen	Terms of Use
Informationen zur Datenschutzrichtlinie anzeigen	Privacy Policy
Informationen zur OSS-Lizenz anzeigen	OSS License
<b>Abonnement</b>	
Mitgliedschaftsbildschirm anzeigen	Membership
<b>ClassPad.net-Konto</b>	
Anmeldebildschirm anzeigen	Log in
Den CASIO ID schließen-Bildschirm anzeigen	Close CASIO ID
<b>Support</b>	
Häufig gestellte Fragen zur ClassPad App anzeigen	Help
Starten Sie Ihren Browser und gehen Sie auf die CASIO WorldWide Education Website	CASIO WorldWide Education Website

## Informationen (Nur Android)

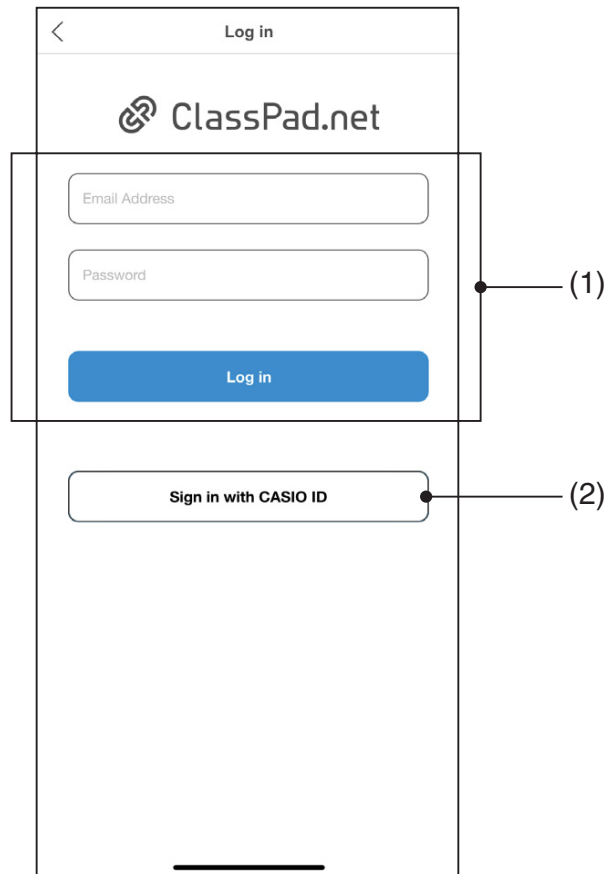
Google Analytics-Einstellungen konfigurieren\*

Auto send usage information

\* Wählen Sie für iOS die Anwendung „Einstellungen“ auf dem Startbildschirm und konfigurieren Sie dann die Einstellungen unter „Benutzerinformationen automatisch senden“.

### ■ Anmeldungs-Funktion

Das Tippen auf [Log in] auf dem Informationsbildschirm zeigt den **Log in**-Bildschirm wie den unten dargestellten an.



- (1) Nach dem Eingeben der Mathematik-Version ihrer ClassPad.net-Kontoinformationen (E-Mail-Adresse und Passwort) tippen Sie auf [Log in]. Dadurch wird Ihr ClassPad App-Abonnementstatus auf Ihr ClassPad.net-Konto angewendet.
- (2) Das Tippen auf diese Taste zeigt den **Log In to CASIO ID**-Bildschirm an (siehe nächste Seite). Sie können eine CASIO ID verwenden, um sich bei ClassPad.net anzumelden.
  - Sie müssen vor dem Anmelden ein ClassPad.net-Konto erstellen.
  - Sie können die Funktionen der ClassPad Math Plus-Lizenz ab Ihrer ersten Anmeldung bei einem ClassPad.net-Konto nach dem Abonnieren der ClassPad App nutzen.

### **Hinweis**

- Informationen zum Unterschied zwischen der Mathematik-Version des ClassPad.net-Kontos und dem ClassPad.net-Konto finden Sie auf der Website unter der folgenden URL:  
<https://classpad.net>

## Log In to CASIO ID-Bildschirm

Das Tippen auf [Sign in with CASIO ID] auf dem **Log in**-Bildschirm zeigt den **Log In to CASIO ID**-Bildschirm wie den unten dargestellten an.

The image shows a mobile application login screen for CASIO ID. At the top is the CASIO logo. Below it is the title "Log In to CASIO ID". There are two input fields: "Email Address" with the placeholder "example@casio.com" and "Password" with a placeholder "Password" and a visibility toggle icon. Below the password field is a link "Forgot your password?". A black "LOG IN" button is centered below the form. At the bottom of the form is a link "Not a Member Yet? Create an Account". Below the form is a horizontal separator line. Underneath is the section "Log in with a social media account" with three buttons: "Sign in with Apple", "Sign in with Microsoft", and "Sign in with Google". Two callout lines with dots point to the right side of the form: callout (3) points to the password field area, and callout (4) points to the social media login buttons.

- (3) Verwenden Sie Ihre CASIO ID, um sich bei ClassPad.net anzumelden. Sie können auch eine neue CASIO ID erstellen, falls Sie keine haben.
- (4) Sie können auch Ihr vorhandenes SNS-Konto verwenden, um sich bei ClassPad.net anzumelden.

## Ausklappmenü-Befehle

Um dies auszuführen:	Wählen Sie dieses Menüelement:			
Erstellen einer neuen vcp-Datei (virtual ClassPad)	File	New		
Öffnen einer existierenden vcp-Datei		Open		
Änderungen an der aktuellen vcp-Datei speichern		Save		
Aktuelle vcp-Datei unter neuem Namen speichern		Save As		
Anhängen einer vcp-Datei an eine E-Mail		Send		
Hauptspeicher löschen		Reset		
Exportieren der ausgewählten mathematischen Ausdrücke und Texte an eine MML-Datei		Export MathML		
Erneutes Öffnen einer der vier am meisten geöffneten Dateien		1 <Dateiname> 2 <Dateiname> 3 <Dateiname>		
Kopieren des ausgewählten mathematischen Ausdrucks mit Inhalts-Textauszeichnung		Edit	Copy Special	MathML
Kopieren des ausgewählten mathematischen Ausdrucks mit Präsentations-Textauszeichnung				Presentation
Kopieren des ausgewählten mathematischen Ausdrucks mit kombinierter Inhalts- und Präsentations-Textauszeichnung				Combined
Kopieren des ausgewählten Texts als Unicode				Unicode
Text aus der Zwischenablage einfügen	Paste Special			
Speichern eines Screenshots des virtuellen ClassPad-Bildschirms	Capture Screen			
Speichern eines Screenshots des aktuell aktiven Felds	Capture Current Panel			
Starten einer Anwendung	Applications		Applicable menu item	
Wechsel in den Rechnermodus* <sup>1</sup>	Window	Calculator Mode		
Wechsel in den Mobilmodus* <sup>2</sup>		Mobile Mode		

\*<sup>1</sup> Nur im Mobilmodus      \*<sup>2</sup> Nur im Rechnermodus

Expat, Release 1.95.8 (MIT/X license)

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Cocoa Platform Plugin

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The qtmain Library

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Pixman (pixman) version 0.17.11

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