

**HAND-BOOK  
OF  
MUSICAL THEORY  
FOR GUITAR**

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# RUDIMENTS OF MUSIC

Musical sounds are expressed by notes named after the first 7 letters of the alphabet - ABCDEFG

These are written on a Staff consisting of 5 lines & 4 spaces. Clefs are used for fixing the position of the notes on the Staff.

All Guitar music is written in Treble Clef (G) and Bass Clef (F) is used mainly for the left hand of the Piano or Bass Guitar.

Notes on the Lines	Notes on the Spaces

Short lines called Ledger lines are written above & below the Staff for additional notes.

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A sharp (#) written before a note raises that note a semitone from its original pitch, whereas, a flat (b) written before a note lowers the note a semitone from its original pitch. A natural (n) cancels a sharp (#) or a flat (b) and restores the sharpened or flattened note to its original pitch.

Every note can have many time values & for each of these a different symbol is used. In the same way there is a sign for every rest (period of silence) of corresponding Time Values to each :-

## TIME VALUES

Seminbreve 4 Counts	Minim 2 Counts	Crotchet 1 Count	Quaver 1/2 Count	Semi Quaver 1/4 Count	Demi Quaver 1/8 Count

## RESTS

--	--	--	--	--	--

Seminbreve Rest 4 Beats Silence	Minim Rest 2 Beats Silence	Crotchet Rest 1 Beat Silence	Quaver Rest 1/2 Beat Silence	Semi Quaver Rest 1/4 Beat Silence	Demi Quaver Rest 1/8 Beat Silence
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A dot placed after a note lengthens the note by one half, thus a dotted Minim (P) is equal to a Minim and a Crotchet. Similarly, a Dotted Crotchet (P) is equal to a Crotchet and a Quaver.

All Music is divided into measures or BARS which mark the Rhythm and Accent of the music. A Time signature is placed at the beginning of the music where the upper figure denotes the number of beats in each Bar and the lower figure denotes the fraction of a Semibreve of each Beat.

2/4 Means 2 Beats in each BAR

e.g. 3/4 Means 3 Beats in each BAR

4/4 Means 4 Beats in each BAR etc.

## TETRACHORDS

The 8 notes of the Major Scale rising from 'C' to 'C' are divided into 2 groups known as Tetrachords. (Each of which contains 4 notes)

## EXAMPLE

C D E F = 1st Tetrachord

G A B C = 2nd Tetrachord

The distance between the 3rd and 4th note and between 7th and 8th note in all MAJOR SCALES are Semitones.

## MUSICAL TERMS AND SIGNS

ACCELERANDO (ACCEL)	= Gradually Faster
RALL	= Gradually Slower
CRESCENDO	= Gradually Louder (<)
DIMINUENDO	= Gradually Softer (>)
P = Soft, M <sub>p</sub> = moderately soft, P <sub>p</sub> = very soft, f = loud, m = Moderately loud, ff = very loud	
ACCENT	= A stress or emphasis on a certain note (denoted by sign >)
ARPEGGIO	= To play the notes of a chord consecutively.
DOLCE	= Sweetly.
AD LIBITUM	= At pleasure with regard to rhythm.
ATEMPO	= To resume the original time.
DA CAPO (D.C.)	= From beginning. AL FINE = To End. Fine = End.
DAL SEGNO	= From sign (S)



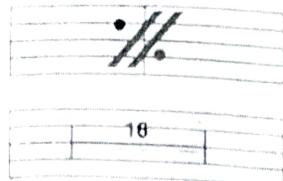
= Strokes through the Staff means same Chord is repeated.

Position (P) = The fret held by the 1st finger.

= Down stroke of the pectrum. U = up stroke of the pectrum.



= Indicates that the last Bar is to be repeated.



= Means last 2 Bars are repeated.

= 16 BARS REST

SLUR	= A long curve over several notes signifies that they are to be played smoothly from one note to another.
8Va	= The notes are to be played an Octave higher than written.
TIE	= A small curve over 2 or more notes which are the same signifies that the next note or notes are not to be played but held down the length of the other note or notes.
CODA	= Pause VOLTI SUBITO (V.S) = Turn over quickly to the next page.
SOSTENUTO	= Ending STACCATO = Detached, the notes to have (silence) between each.
SEMITONE	= The smallest pitch interval used in Western Music. MAGGIORE = Major, MINORE = Minor
RELATIVE MAJOR	= 3 Semitones above Minor OCTAVE = An eighth MODULATION = Change of key.
RELATIVE MINOR	= 3 Semitones below MAJOR, GRADUAL MODULATION = It is a change into some key which is the nearest and most natural to the one in which the composition is written.

ABRUPT MODULATION	= It is a change into some distant key.
PARTIAL MODULATION	= Change of key which is no sooner made than it returns at once to its original key.
TRANSPOSITION	= Art of removing a composition into a higher or lower key, so as to be better adapted or suited to some particular voice or instrument.
MELODY	= Succession of single notes or sounds.
HARMONY	= 2 or more notes or sounds heard at the same time in proper order.
TRIPLET	= A group of 3 notes used to fill a beat, in which case the time signature is not changed but the notes are grouped in 3's with a figure 3 written against them.
TREBLE CLEF	= When high notes are used, (G Clef)
BASS CLEF	= When low notes are used, (F Clef)

GRAVE = Extremely slow (slowest tempo), LENTO = very slow, LARGO = slow, LARGHETTO = Not so slow as largo, ANDANTE = Going at an easy pace, ANDANTINO = Bit quicker than Andante, Moderato = In a moderate speed, ALLEGRETTO = Rather fast, ALLEGRO = Fast and lively (Faster than Allegretto), PRESTO = very quick (faster than Allegro), PRESTISSIMO = As fast as possible (Fastest tempo)

## CONSTRUCTION OF SCALES

MAJOR SCALES = Semitones lie between 3rd & 4th Notes and 7th & 8th Notes

Example: C D E F G A B C  
1 2 3 4 | 5 6 7 8

RELATIVE MINOR SCALES = Semitones lie between 2nd & 3rd Notes and 5th & 6th Notes

Example: C D E F G A B C  
1 2 3 4 5 6 7 8

MELODIC MINOR SCALES = Semitones lie between 2nd & 3rd Notes and 7th & 8th Notes (Ascending) and 6th & 5th Notes and 3rd & 2nd Notes (Descending)

Example: C D E F G A B C = Ascending Notes  
1 2 3 4 5 6 7 8

C B A G F E D C = Descending Notes  
8 7 6 5 4 3 2 1

HARMONIC MINOR SCALES = Semitones lie between 2nd & 3rd Notes 5th & 6th Notes and 7th & 8th Notes

Example: C D E F G A B C  
1 2 3 4 5 6 7 8

## NOTES OF MAJOR SCALES

Key C	=	C	D	E	F	G	A	B	C
Key G	=	G	A	B	C	D	E	F	G
Key D	=	D	E	F	G	A	B	C	D
Key A	=	A	B	C	D	E	F	G	A
Key E	=	E	F	G	A	B	C	D	E
Key B	=	B	C	D	E	F	G	A	B
Key F	=	F	G	A	B	C	D	E	F
Key C	=	C	D	E	F	G	A	B	C
Key F	=	F	G	A	B	C	D	E	F
Key B <sup>+</sup>	=	B	C	D	E	F	G	A	B
Key E <sup>+</sup>	=	E	F	G	A	B	C	D	E
Key A <sup>+</sup>	=	A	B	C	D	E	F	G	A
Key D <sup>+</sup>	=	D	E	F	G	A	B	C	D
Key G <sup>+</sup>	=	G	A	B	C	D	E	F	G

## NOTES OF MELODIC MINOR SCALES

Am	=	A	B	C	D	E	F	G	A	-Asc	
			A	G	F	E	D	C	B	A	-Des
Em	=	E	F	G	A	B	C	D	E	-Asc	
		E	D	C	B	A	G	F	E	-Des	
Bm	=	B	C	D	E	F	G	A	B	-Asc	
		B	A	G	F	E	D	C	B	A	-Des
Fm	=	F	G	A	B	C	D	E	F	-Asc	
		F	E	D	C	B	A	G	F	-Des	

## NOTES OF RELATIVE MINOR SCALES

Am	=	A	B <sup>+</sup>	C	D	E	F	G	A
Em	=	E	F	G	A	B <sup>+</sup>	C	D	E
Bm	=	B	C	D	E	F	G	A	B
F#m	=	F	G	A	B	C	D	E	F
C#m	=	C	D	E	F	G	A	B	C
G#m	=	G	A	B	C	D	E	F	G
D#m	=	D	E	F	G	A	B	C	D
A#m	=	A	B	C	D	E	F	G	A
Dm	=	D	E	F	G	A	B	C	D
Gm	=	G	A	B <sup>+</sup>	C	D	E	F	G
Cm	=	C	D	E	F	G	A	B	C
Fm	=	F	G	A	B <sup>+</sup>	C	D	E	F
B <sup>+</sup> m	=	B	C	D	E	F	G	A	B
E <sup>+</sup> m	=	E	F	G	A	B	C	D	E

C#m	=	C	D	E	F	G	A	B	C	-Asc
		C	B	A	G	F	E	D	C	-Des
G#m	=	G	A	B	C	D	E	F	G	-Asc
		G	F	E	D	C	B	A	G	-Des
D#m	=	D	E	F	G	A	B	C	D	-Asc
		D	C	B	A	G	F	E	D	-Des
A#m	=	A	B	C	D	E	F	G	A	-Asc
		A	G	F	E	D	C	B	A	-Des
Dm	=	D	E	F	G	A	B	C	D	-Asc
		D	C	B	A	G	F	E	D	-Des
Gm	=	G	A	B	C	D	E	F	G	-Asc
		G	F	E	D	C	B	A	G	-Des

## NOTES OF HARMONIC MINOR SCALES

Am	=	A	B	C	D	E	F	G	A
Em	=	E	F	G	A	B	C	D	E
Bm	=	B	C	D	E	F	G	A	B
F#m	=	F	G	A	B	C	D	E	F
C#m	=	C	D	E	F	G	A	B	C
G#m	=	G	A	B	C	D	E	F	G
D#m	=	D	E	F	G	A	B	C	D
A#m	=	A	B	C	D	E	F	G	A
Dm	=	D	E	F	G	A	B	C	D
Gm	=	G	A	B <sup>+</sup>	C	D	E	F	G
Cm	=	C	D	E	F	G	A	B	C
Fm	=	F	G	A	B <sup>+</sup>	C	D	E	F
B <sup>+</sup> m	=	B	C	D	E	F	G	A	B
E <sup>+</sup> m	=	E	F	G	A	B	C	D	E

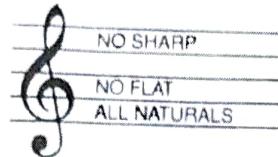
Cm	=	C	D	E	F	G	A	B	C	-Asc
		C	B	A	G	F	E	D	C	-Des
Fm	=	F	G	A	B	C	D	E	F	-Asc
		F	E	D	C	B	A	G	F	-Des
B <sup>+</sup> m	=	B	C	D	E	F	G	A	B	-Asc
		B	A	G	F	E	D	C	B	-Des
E <sup>+</sup> m	=	E	F	G	A	B	C	D	E	-Asc
		E	D	C	B	A	G	F	E	-Des

## KEY SIGNATURES

MAJOR SCALES

AND THEIR RELATIVE MINORS

- C -



Am

- G -



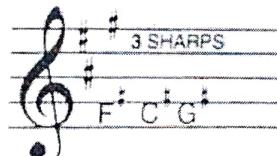
Em

- D -



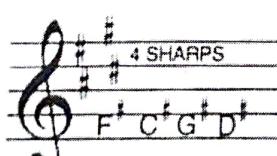
Bm

- A -



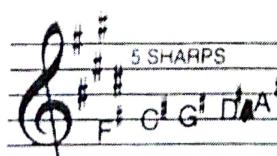
F#m

- E -



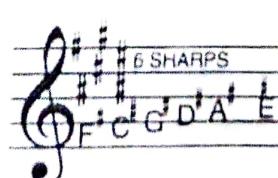
C#m

- B -



G#m

- F# -



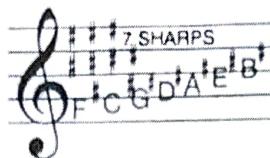
D#m

## KEY SIGNATURES (CONTD.)

MAJOR SCALES

AND THEIR RELATIVE MINORS

—C♯—

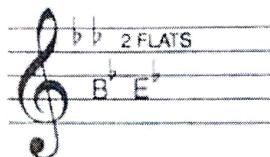
A<sup>♯</sup>m

—F—



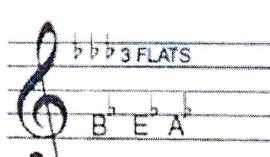
Dm

—B♭—



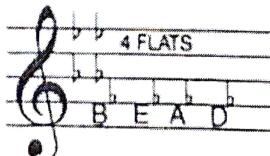
Gm

—E♭—



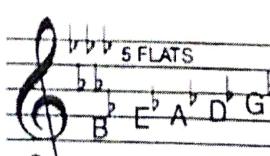
Cm

—A♭—

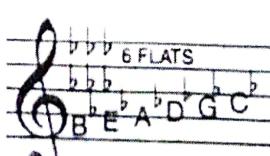


Fm

—D♭—

B<sup>♭</sup>m

—G♭—

E<sup>♭</sup>m

## CONSTRUCTION OF CHORDS

MAJOR	= 'R, 3rd, 5th
MINOR	= R, ** Minor 3rd, 5TH.
SEVENTH (7th)	= R, 3rd, 5th Minor 7th
MAJOR 7th	= R, 3rd, 5th, 7th
MINOR 7th	= R, Minor 3rd, 5th, Minor 7th
MINOR WITH MAJOR 7th	= R, Minor 3rd, 5TH, 7th
AUGMENTED 5th	= R, 3rd, ***Aug5th
DIMINISHED	= R, Minor 3rd, ****D5th, 6th
6th	= R, 3rd, 5th, 6th
MINOR 6th	= R, Minor 3rd, 5th, 6th
9th	= R, 3rd, 5th, Minor 7, 9th
MAJOR 9th	= R, 3rd, 5th, 7th, 9th
MINOR 9th	= R, Minor 3rd, 5th, Minor 7th, 9th
7th WITH SHARPENED 9th	= R, 3rd, 5th, Minor 7th, SHARPENED 9th
7th WITH FLATTENED 9th	= R, 3rd, 5th, Minor 7th, FLATTENED 9th
11th	= R, 3rd, 5th, Minor 7th, 9th, 11th
13th	= R, 3rd, 5th, Minor 7th, 9th, 13th
SUSPENDED 4th	= R, 4th, 5th
7th WITH SUSPENDED 4th	= R, 4th, 5th, Minor 7th
MAJOR 7TH WITH SUSPENDED 4th	= R, 4th, 5th, 7th
7th WITH AUGMENTED 5th	= R, 3rd, Aug5th, Minor 7th
7th WITH FLATTENED 5th	= R, 3rd, FLAT 5th, Minor 7th
9TH WITH AUGMENTED 5TH	= R, 3rd, Aug 5th, Minor 7th 9th
9 TH WITH DIMINISHED 5TH	= R, 3rd, Dim 5th, Minor 7th 9th
MAJOR 7 TH WITH AUGMENTED 5TH	= R, 3rd, Aug 5th, 7th
MAJOR 7 TH WITH DIMINISHED 5TH	= R, 3rd, Dim 5th, 7th
MINOR 7TH WITH AUGMENTED 5TH	= R, Minor 3rd, Aug 5th, Minor 7th.
MINOR 7TH WITH DIMINISHED 5TH,	= R, Minor 3rd, Dim 5th Minor 7th
7TH WITH 6TH	= R, 3rd, 5th, Minor 7th, 6th

\*R=Root, \*\*M=Minor, \*\*\*A=Augmented, \*\*\*\*D=Diminished.

## CONSTRUCTION OF CHORDS (CONTD.)

MAJOR 7TH WITH 6TH	= R, 3rd, 5th, 7th, 6TH.
MINOR 7TH WITH 6 TH	= R, Minor 3rd, 5th, Minor 7th, 6th
11 WITH 13	= R, 3rd, 5th, Minor 7th, 9th, 11th, 13th.
AUGMENTED 11th	= R, 3rd, 5th, Minor 7th, 9th, Aug 11th.
MAJOR 7TH WITH 11TH	= R, 3rd, 5th, 7th, 9th, 11th
MINOR 7th WITH 11TH	= R, Minor 3rd, 5th, Minor 7th, 9th, 11th
MAJOR 7th WITH SHARPENED 9th	= R, 3rd, 5th, 7th, S9th
MINOR 7TH WITH SHARPENED 9TH	= R, Minor 3rd, 5th, Minor 7th, S9th
MAJOR 7TH WITH FLATTENED 9TH	= R, 3rd, 5th, 7th, F9th
MINOR 7TH WITH FLATTENED 9TH	= R, Minor 3rd, 5th, Minor 7th, F9

NOTE : each AUGMENTED 5TH CHORD can have 3 names - each note the chord is built, eg. :-

Key C	=	C	D	E	F	G	A	B	C
		R	2nd	3rd	4th	5th	6th	7th	8th
C+	=	C	E	G <sup>#</sup>					
		R	2nd	3rd	4th	B	C <sup>#</sup>	D <sup>#</sup>	E
Key E	=	E	F <sup>#</sup>	G <sup>#</sup>	A	B	C <sup>#</sup>	D <sup>#</sup>	E
		R	2nd	3rd	4th	5th	6th	7th	8th
E+	=	E	G <sup>#</sup>	C					
		R	2nd	3rd	4th	E <sup>b</sup>	F	G <sup>b</sup>	A <sup>b</sup>
Key A <sup>b</sup>	=	A <sup>b</sup>	B <sup>b</sup>	C <sup>b</sup>	D <sup>b</sup>	E <sup>b</sup>	F	G <sup>b</sup>	A <sup>b</sup>
		R	2nd	3rd	4th	5th	6th	7th	8th
A <sup>b</sup> +	=	A <sup>b</sup>	C	E					
AC+	=	E+	=	A+(G+)					

Similarly, DIMINISHED CHORDS can also have 4 Names

$$\text{Example, Co} = E^b o = F^# o = Ao$$

Key C	=	C	D	E	F	G	A	B	C	→	Co	=	C	E <sup>b</sup>	F <sup>#</sup>	A
Key E <sup>b</sup>	=	E <sup>b</sup>	F	G	A <sup>b</sup>	B <sup>b</sup>	C	D	E <sup>b</sup>	→	E <sup>b</sup> o	=	E <sup>b</sup>	F <sup>#</sup>	A	C
Key F <sup>#</sup>	=	F <sup>#</sup>	G <sup>#</sup>	A	B	C <sup>#</sup>	D	E <sup>#</sup>	F <sup>#</sup>	→	F <sup>#</sup> o	=	F <sup>#</sup>	A	C	D <sup>#</sup>
Key A	=	A	B	C <sup>#</sup>	D	E	F <sup>#</sup>	G	A	→	Ao	=	A	C	E <sup>b</sup>	F <sup>#</sup>

NOTE MINOR 7TH WITH SHARPENED 9TH CHORD and MINOR 7TH CHORD IS SAME, because MINOR 3rd NOTE and SHARPENED 9TH Note is same.

NOTES OF MAJOR CHORDS

C = C E G	Cm = C E $\flat$	C7 = C E G $\flat$	Cmaj7 = C E G B $\flat$
C $\sharp$ = C $\sharp$ F G	C $\sharp$ m = C $\sharp$ E G $\sharp$	C $\sharp$ 7 = C $\sharp$ F G $\sharp$ B	C $\sharp$ maj7 = C $\sharp$ F G $\sharp$ C
D = D F $\sharp$ A	Dm = D F A	D7 = D F $\sharp$ A C	Dmaj7 = D F $\sharp$ A C $\sharp$
E $\flat$ = E $\flat$ G B $\flat$	E $\flat$ m = E $\flat$ G B $\flat$	E $\flat$ 7 = E $\flat$ G B $\flat$ D $\flat$	E $\flat$ maj7 = E $\flat$ G B $\flat$ D
E = E G $\sharp$ B	Em = E G B	E7 = E G $\sharp$ B D	Emaj7 = E G $\sharp$ B D $\sharp$
F = F A C	Fm = F A $\flat$	F7 = F A C E $\flat$	Fmaj7 = F A C E
F $\sharp$ = F $\sharp$ A $\sharp$ C $\sharp$	F $\sharp$ m = F $\sharp$ A C $\sharp$	F $\sharp$ 7 = F $\sharp$ A $\sharp$ C $\sharp$ E	F $\sharp$ maj7 = F $\sharp$ A $\sharp$ C $\sharp$ F
G = G B D	Gm = G B $\flat$ D	G7 = G B D F	Gmaj7 = G B D F $\sharp$
A $\flat$ = A $\flat$ C E $\flat$	A $\flat$ m = A $\flat$ B E $\flat$	A $\flat$ 7 = A $\flat$ C E $\flat$ G $\flat$	A $\flat$ maj7 = A $\flat$ C E $\flat$ G $\flat$
A = A C $\sharp$ E	Am = A C E	A7 = A C $\sharp$ E G	Amaj7 = A C $\sharp$ E G
B $\flat$ = B $\flat$ D F	B $\flat$ m = B $\flat$ D $\flat$ F	B $\flat$ 7 = B $\flat$ D F A $\flat$	B $\flat$ maj7 = B $\flat$ D F A
B = B D $\sharp$ F $\sharp$	B7 = B D F $\sharp$	B7 = B D $\sharp$ F A	Bmaj7 = B D $\sharp$ F A $\sharp$

NOTES OF MINOR CHORDS

NOTES OF 7TH CHORDS			
C7 = C E G B $\flat$			
C $\sharp$ 7 = C $\sharp$ E G $\sharp$	C $\sharp$ 7 = C $\sharp$ E G $\sharp$	C $\sharp$ 7 = C $\sharp$ E G $\sharp$	C $\sharp$ 7 = C $\sharp$ E G $\sharp$
D7 = D F A	D7 = D F $\sharp$ A	D7 = D F $\sharp$ A	D7 = D F $\sharp$ A
E $\flat$ 7 = E $\flat$ G B $\flat$	E $\flat$ 7 = E $\flat$ G B $\flat$	E $\flat$ 7 = E $\flat$ G B $\flat$	E $\flat$ 7 = E $\flat$ G B $\flat$
E7 = E G B			
F7 = F A C			
F $\sharp$ 7 = F $\sharp$ A $\sharp$ C $\sharp$	F $\sharp$ 7 = F $\sharp$ A $\sharp$ C $\sharp$	F $\sharp$ 7 = F $\sharp$ A $\sharp$ C $\sharp$	F $\sharp$ 7 = F $\sharp$ A $\sharp$ C $\sharp$
G7 = G B $\flat$ D			
A $\flat$ 7 = A $\flat$ C E $\flat$	A $\flat$ 7 = A $\flat$ B E $\flat$	A $\flat$ 7 = A $\flat$ C E $\flat$ G $\flat$	A $\flat$ 7 = A $\flat$ C E $\flat$ G $\flat$
A7 = A C $\sharp$ E	A7 = A C E	A7 = A C $\sharp$ E G	A7 = A C $\sharp$ E G
B $\flat$ 7 = B $\flat$ D F	B $\flat$ 7 = B $\flat$ D $\flat$ F	B $\flat$ 7 = B $\flat$ D F A $\flat$	B $\flat$ 7 = B $\flat$ D F A
B7 = B D $\sharp$ F $\sharp$	B7 = B D F $\sharp$	B7 = B D $\sharp$ F A	B7 = B D $\sharp$ F A $\sharp$

NOTES OF MAJOR 7TH CHORDS

NOTES OF MAJOR 7TH CHORDS			
Cmaj7 = C E G B $\flat$			
C $\sharp$ maj7 = C $\sharp$ E G $\sharp$	C $\sharp$ maj7 = C $\sharp$ E G $\sharp$	C $\sharp$ maj7 = C $\sharp$ E G $\sharp$	C $\sharp$ maj7 = C $\sharp$ E G $\sharp$
Dmaj7 = D F A	Dmaj7 = D F $\sharp$ A	Dmaj7 = D F $\sharp$ A	Dmaj7 = D F $\sharp$ A
D $\flat$ maj7 = D F $\flat$ A	D $\flat$ maj7 = D F A $\flat$	D $\flat$ maj7 = D F A $\flat$	D $\flat$ maj7 = D F A $\flat$
Emaj7 = E G B			
E $\flat$ maj7 = E G B $\flat$	E $\flat$ maj7 = E G B $\flat$	E $\flat$ maj7 = E G B $\flat$	E $\flat$ maj7 = E G B $\flat$
Fmaj7 = F A C			
F $\sharp$ maj7 = F $\sharp$ A $\sharp$ C $\sharp$	F $\sharp$ maj7 = F $\sharp$ A $\sharp$ C $\sharp$	F $\sharp$ maj7 = F $\sharp$ A $\sharp$ C $\sharp$	F $\sharp$ maj7 = F $\sharp$ A $\sharp$ C $\sharp$
Gmaj7 = G B D			
A $\flat$ maj7 = A $\flat$ C E $\flat$	A $\flat$ maj7 = A $\flat$ B E $\flat$	A $\flat$ maj7 = A $\flat$ C E $\flat$ G $\flat$	A $\flat$ maj7 = A $\flat$ C E $\flat$ G $\flat$
Amaj7 = A C $\sharp$ E	Amaj7 = A C E	Amaj7 = A C $\sharp$ E G	Amaj7 = A C $\sharp$ E G
B $\flat$ maj7 = B $\flat$ D F	B $\flat$ maj7 = B $\flat$ D $\flat$ F	B $\flat$ maj7 = B $\flat$ D F A $\flat$	B $\flat$ maj7 = B $\flat$ D F A
Bmaj7 = B D $\sharp$ F $\sharp$	Bmaj7 = B D F $\sharp$	Bmaj7 = B D $\sharp$ F A	Bmaj7 = B D $\sharp$ F A $\sharp$

### NOTES OF MINOR 7TH CHORDS

#### NOTES OF MINOR WITH MAJOR 7TH CHORDS

#### NOTES OF MINOR 7TH CHORDS

#### NOTES OF MINOR WITH MAJOR 5TH CHORDS

#### NOTES OF AUGMENTED 5TH CHORDS

#### NOTES OF DIMINISHED CHORDS

Cm7	=	C	E <sup>b</sup>	G	B <sup>b</sup>	Cmaj7	=	C	E <sup>b</sup>	G	B	C+	=	C	E	G <sup>#</sup>	Co = C	E <sup>b</sup>	F <sup>#</sup> A
C <sup>#</sup> m7	=	C <sup>#</sup>	E <sup>#</sup>	G	B	C <sup>#</sup> maj7	=	C <sup>#</sup>	E	G <sup>#</sup>	C	C <sup>#</sup> +	=	C <sup>#</sup>	E	G <sup>#</sup>	C <sup>#</sup> o = C <sup>#</sup>	E	G B
Dm7	=	D	F	A	C	Dmaj7	=	D	F	A	C <sup>#</sup>	D+	=	D	F <sup>#</sup>	A <sup>#</sup>	D o = D	F	G <sup>#</sup> B
E <sup>b</sup> m7	=	E <sup>b</sup>	G <sup>b</sup>	B <sup>b</sup>	D <sup>b</sup>	E <sup>b</sup> maj7	=	E <sup>b</sup>	G <sup>b</sup>	B <sup>b</sup>	D	E <sup>b</sup> +	=	E <sup>b</sup>	G	B	E <sup>b</sup> o = E <sup>b</sup>	F	A C
Em7	=	E	G	B	D	Emaj7	=	E	G	B	D <sup>#</sup>	E+	=	E	G <sup>#</sup>	C	Eo = E	G	B <sup>b</sup> C <sup>#</sup>
Fm7	=	F	A	C	E <sup>b</sup>	Fmaj7	=	F	A	C <sup>b</sup>	E	F+	=	F	A	C <sup>#</sup>	Fo = F	G <sup>#</sup>	B D
F <sup>#</sup> m7	=	F <sup>#</sup>	A	C <sup>#</sup>	E	F <sup>#</sup> maj7	=	F <sup>#</sup>	A	C <sup>#</sup>	F	F <sup>#</sup> +	=	F <sup>#</sup>	A <sup>#</sup>	D	F <sup>#</sup> o = F <sup>#</sup>	A	C D <sup>#</sup>
Gm7	=	G	B <sup>b</sup>	D	F	Gmaj7	=	G	B <sup>b</sup>	D	F <sup>#</sup>	G+	=	G	B	E <sup>b</sup>	Go = G	B <sup>b</sup>	C E
A <sup>b</sup> m7	=	A <sup>b</sup>	B	E <sup>b</sup>	F <sup>#</sup>	A <sup>b</sup> maj7	=	A <sup>b</sup>	B	E <sup>b</sup>	G	A <sup>b</sup> +	=	A <sup>b</sup>	C	E	A <sup>b</sup> o = A <sup>b</sup>	B	D F
Am7	=	A	C	E	G	Amaj7	=	A	C	E	G <sup>#</sup>	A+	=	A	C <sup>#</sup>	F	Ao = A	C	E <sup>b</sup> F <sup>#</sup>
B <sup>b</sup> m7	=	B <sup>b</sup>	D <sup>b</sup>	F	A <sup>b</sup>	B <sup>b</sup> maj7	=	B <sup>b</sup>	D <sup>b</sup>	F	A	B <sup>b</sup> +	=	B <sup>b</sup>	D	F <sup>#</sup>	B <sup>b</sup> o = B <sup>b</sup>	D <sup>b</sup>	E G
Bm7	=	B	D	F <sup>#</sup>	A	Bm7	=	B	D	F <sup>#</sup>	A	B <sup>#</sup>	=	B	E <sup>b</sup>	G	Bo = B	D	F G <sup>#</sup>

### NOTES OF 6TH CHORDS

	NOTES OF 6TH CHORDS			NOTES OF MINOR 6TH CHORDS			NOTES OF 9TH CHORDS			NOTES OF MAJOR 9TH CHORDS			
C <sub>6</sub>	= C	G	A	Cm <sub>6</sub>	= C	E <sup>b</sup>	G	A	C <sub>9</sub>	= C	E	G	B <sup>b</sup>
C <sub>6</sub>	= C <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	Cm <sub>6</sub>	= C <sup>#</sup>	E	G <sup>#</sup>	A <sup>#</sup>	C <sub>9</sub>	= C	F	G <sup>#</sup>	D <sup>#</sup>
D <sub>6</sub>	= D	A	B	Dm <sub>6</sub>	= D	F	A	B	D <sub>9</sub>	= D	F <sup>#</sup>	A	C <sup>#</sup>
E <sub>6</sub>	= E <sup>b</sup>	G <sup>b</sup>	C	Em <sub>6</sub>	= E <sup>b</sup>	G <sup>b</sup>	B <sup>b</sup>	C	E <sup>b</sup> <sub>9</sub>	= E <sup>b</sup>	G <sup>b</sup>	B <sup>b</sup>	D
E <sub>6</sub>	= E	G	B <sup>#</sup>	Em <sub>6</sub>	= E	G	B	C <sup>#</sup>	E <sub>9</sub>	= E	G <sup>#</sup>	B	D <sup>#</sup>
F <sub>6</sub>	= F	A	C	Fm <sub>6</sub>	= F	A <sup>b</sup>	C	D	F <sub>9</sub>	= F	A	C	D <sup>#</sup>
F <sub>6</sub>	= F	A <sup>#</sup>	C <sup>#</sup>	Fm <sub>6</sub>	= F <sup>#</sup>	A	C <sup>#</sup>	D <sup>#</sup>	F <sub>9</sub>	= F	A	C <sup>#</sup>	G <sup>#</sup>
G <sub>6</sub>	= G	B	D	Gm <sub>6</sub>	= G	B <sup>b</sup>	D	E	G <sub>9</sub>	= G	B	D	F <sup>#</sup>
A <sub>6</sub>	= A <sup>b</sup>	C	E <sup>b</sup>	Am <sub>6</sub>	= A <sup>b</sup>	B	E <sup>b</sup>	F	A <sup>b</sup> <sub>9</sub>	= A <sup>b</sup>	C	E <sup>b</sup>	A <sup>#</sup>
A <sub>6</sub>	= A	C	E <sup>#</sup>	Am <sub>6</sub>	= A	C	E	F <sup>#</sup>	A <sub>9</sub>	= A	C <sup>#</sup>	E	G <sup>#</sup>
B <sub>6</sub>	= B <sup>b</sup>	D	F	Bm <sub>6</sub>	= B <sup>b</sup>	D <sup>b</sup>	F	G	B <sup>b</sup> <sub>9</sub>	= B <sup>b</sup>	D	F	A
B <sub>6</sub>	= B	D	F <sup>#</sup>	Bm <sub>6</sub>	= B	D	F <sup>#</sup>	G <sup>#</sup>	B <sub>9</sub>	= B	D	F <sup>#</sup>	A <sup>#</sup>

NOTES OF MINOR 9TH CHORDS

NOTES OF 7TH WITH  
SHARPENED 9TH CHORDS

NOTES OF 7TH WITH  
FLATTENED 9TH CHORDS

NOTES OF 11TH CHORDS

$C_{m9} = C$	$E^{\flat}$	$G$	$B^{\flat}$	$D$	$C_{7+9} = C$	$E$	$G$	$B^{\flat}$	$D$	$C_{7,9} = C$	$E$	$G$	$B^{\flat}$	$D$	$F$
$C_{\#m9} = C$	$E^{\sharp}$	$G$	$B^{\sharp}$	$D^{\sharp}$	$C_{7,9}^{\sharp} = C^{\sharp}$	$F$	$G^{\sharp}$	$B^{\sharp}$	$E$	$C_{7,9} = C^{\sharp}$	$F$	$G^{\sharp}$	$B^{\sharp}$	$D^{\sharp}$	$F^{\sharp}$
$D_{m9} = D$	$F$	$A$	$C$	$E$	$D_{7+9} = D$	$F^{\sharp}$	$A$	$C$	$F$	$D_{7,9} = D$	$F^{\sharp}$	$A$	$C$	$E$	$G$
$E_{m9} = E^{\flat}$	$G^{\flat}$	$B^{\flat}$	$C^{\flat}$	$F$	$E_{7+9} = E^{\flat}$	$G$	$B^{\flat}$	$D^{\flat}$	$F$	$E_{7,9} = E^{\flat}$	$G$	$B^{\flat}$	$D^{\flat}$	$E$	$G^{\flat}$
$E_{\#m9} = E$	$G$	$B$	$D$	$F^{\sharp}$	$E_{7+9} = E$	$G^{\sharp}$	$B$	$D$	$G$	$E_{7,9} = E$	$G^{\sharp}$	$B$	$D$	$F$	$F^{\sharp}$
$F_{m9} = F$	$A^{\flat}$	$C$	$D^{\sharp}$	$G$	$F_{7+9} = F$	$A$	$C$	$B^{\flat}$	$G^{\sharp}$	$F_{7,9} = F$	$A$	$C$	$E^{\flat}$	$F$	$B^{\flat}$
$F_{\#m9} = F^{\sharp}$	$A^{\sharp}$	$C^{\sharp}$	$E$	$G^{\sharp}$	$F_{7+9}^{\sharp} = F^{\sharp}$	$A^{\sharp}$	$C^{\sharp}$	$E$	$A$	$F_{7,9}^{\sharp} = F^{\sharp}$	$A^{\sharp}$	$C^{\sharp}$	$E$	$G^{\sharp}$	$B^{\sharp}$
$G_{m9} = G^{\flat}$	$B^{\flat}$	$D$	$F$	$A$	$G_{7+9} = G$	$B$	$D$	$F$	$A^{\sharp}$	$G_{7,9} = G$	$B$	$D$	$F$	$G$	$G^{\flat}$
$G_{\#m9} = A^{\flat}$	$B$	$E^{\flat}$	$F^{\sharp}$	$A^{\sharp}$	$A_{7+9} = A^{\flat}$	$C$	$E^{\flat}$	$F$	$B$	$A_{7,9} = A^{\flat}$	$C$	$E^{\flat}$	$F$	$A^{\sharp}$	$G^{\flat}$
$A_{m9} = A$	$C$	$E$	$G$	$B$	$A_{7,9} = A$	$C^{\sharp}$	$E$	$G$	$C$	$A_{7,9} = A$	$C^{\sharp}$	$E$	$G$	$A^{\sharp}$	$H^{\sharp}$
$B_{m9} = B^{\flat}$	$D^{\flat}$	$F$	$A^{\flat}$	$C$	$B_{7,9} = B^{\flat}$	$D$	$F$	$G$	$C^{\sharp}$	$B_{7,9} = B^{\flat}$	$D$	$F$	$G^{\sharp}$	$B$	$D$
$B_{\#m9} = B$	$D$	$F^{\sharp}$	$A^{\sharp}$	$C^{\sharp}$	$B_{7,9} = B$	$D^{\sharp}$	$F$	$A$	$D$	$B_{7,9} = B$	$E^{\flat}$	$F$	$A$	$C$	$H$

NOTES OF 13TH CHORDS

NOTES OF  
SUSPENDED 4TH CHORDS

NOTES OF MAJOR 7TH WITH  
SUSPENDED 4TH CHORDS

C <sub>13</sub>	C E G B D A	C <sub>7sus4</sub>	C F G	C <sub>7sus</sub>	C F G B	C <sub>maj 7/4</sub>	C F G B
C <sub>13</sub>	C F G B D A	C <sub>sus4</sub>	C F G	C <sub>7sus</sub>	C F G B	C <sub>maj 7/4</sub>	C F G C
D <sub>13</sub>	D F A C E B	D <sub>sus4</sub>	D G A	D <sub>7sus</sub>	D G A C	D <sub>maj 7/4</sub>	D G A C
E <sub>13</sub>	E B G B C F C	E <sub>sus4</sub>	E A B	E <sub>7sus</sub>	E G B	E <sub>maj 7/4</sub>	E G B D
E <sub>13</sub>	E G B D F C	E <sub>sus4</sub>	E A B	E <sub>7sus</sub>	E A B D	E <sub>maj 7/4</sub>	E A B D
F <sub>13</sub>	F A C E G D	F <sub>sus4</sub>	F B C	F <sub>7sus</sub>	F B C D	F <sub>maj 7/4</sub>	F B C E
F <sub>13</sub>	F C E G D	F <sub>sus4</sub>	F B C	F <sub>7sus</sub>	F B C E	F <sub>maj 7/4</sub>	F B C F
G <sub>13</sub>	G B D F A E	G <sub>sus4</sub>	G C D	G <sub>7sus</sub>	G C D F	G <sub>maj 7/4</sub>	G C D F
A <sub>13</sub>	A C E B F	A <sub>sus4</sub>	A D E	A <sub>7sus</sub>	A D E F	A <sub>maj 7/4</sub>	A D E G
A <sub>13</sub>	A C E G B F	A <sub>sus4</sub>	A D E	A <sub>7sus</sub>	A D E G	A <sub>maj 7/4</sub>	A D E G
B <sub>13</sub>	B D F G C G	B <sub>sus4</sub>	B E F	B <sub>7sus</sub>	B E F G	B <sub>maj 7/4</sub>	B E F A
B <sub>13</sub>	B D F A C G	B <sub>sus4</sub>	B E F	B <sub>7sus</sub>	B E F A	B <sub>maj 7/4</sub>	B E F A

NOTES OF 7TH WITH  
AUGMENTED 5TH CHORDS

NOTES OF 7TH WITH  
FLATTENED 5TH CHORDS

NOTES OF 7TH WITH  
AUGMENTED 5TH CHORDS

NOTES OF 9TH WITH  
DIMINISHED 5TH CHORDS

$C_{7+5} = C \quad E \quad G^{\#} \quad B^b$	$C'_{7+5} = C \quad E \quad G^b \quad B^b$	$C_{9+5} = C \quad E \quad G^{\#} \quad B^b$	$C_{9-5} = C \quad E \quad G^b \quad B^b$
$C^{\#}_{7+5} = C^{\#} \quad F \quad A \quad B$	$C^{\#}_{7+5} = C^{\#} \quad F \quad G \quad B$	$C^{\#}_{9+5} = C^{\#} \quad F \quad A \quad B^b$	$C^{\#}_{9-5} = C^{\#} \quad F \quad G \quad B^b$
$D_{7+5} = D \quad F^{\#} \quad B^b \quad C$	$D_{7+5} = D \quad F^{\#} \quad A^b \quad C$	$D_{9+5} = D \quad F^{\#} \quad B^b \quad C \quad E$	$D_{9-5} = D \quad F^{\#} \quad A^b \quad C \quad E$
$E^b_{7+5} = E^b \quad G \quad B \quad C^{\#}$	$E^b_{7+5} = E^b \quad G \quad A \quad C^{\#}$	$E^b_{9+5} = E^b \quad G \quad B \quad C^{\#} \quad F$	$E^b_{9-5} = E^b \quad G \quad A \quad C^{\#} \quad F$
$E_{7+5} = E \quad A^b \quad C \quad D$	$E_{7+5} = E \quad G^{\#} \quad B^b \quad D$	$E_{9+5} = E \quad G^{\#} \quad C \quad D \quad F^{\#}$	$E_{9-5} = E \quad A^b \quad B^b \quad D \quad F^{\#}$
$F^{\#}_{7+5} = F \quad A \quad C^{\#} \quad E^b$	$F_{7+5} = F \quad A \quad B \quad E^b$	$F_{9+5} = F \quad A \quad C^{\#} \quad E^b$	$F_{9-5} = F \quad A \quad B \quad E^b$
$F^{\#}_{7+5} = F^{\#} \quad B^b \quad D \quad E$	$F^{\#}_{7+5} = F^{\#} \quad A^{\#} \quad C \quad E$	$F^{\#}_{9+5} = F^{\#} \quad A^{\#} \quad D \quad E \quad A^b$	$F^{\#}_{9-5} = F^{\#} \quad B^b \quad C \quad E \quad A^b$
$G_{7+5} = G \quad B \quad E^b \quad F$	$G_{7+5} = G \quad B \quad C^{\#} \quad F$	$G_{9+5} = G \quad B \quad E^b \quad F \quad A$	$G_{9-5} = G \quad B \quad C^{\#} \quad F \quad A$
$A^b_{7+5} = A^b \quad C \quad E \quad F^{\#}$	$A^b_{7+5} = A^b \quad C \quad D \quad F^{\#}$	$A^b_{9+5} = A^b \quad C \quad E \quad F^{\#} \quad B^b$	$A^b_{9-5} = A^b \quad C \quad D \quad F^{\#} \quad B^b$
$A_{7+5} = A \quad C^{\#} \quad F \quad G$	$A_{7+5} = A \quad C^{\#} \quad E^b \quad G$	$A_{9+5} = A \quad C^{\#} \quad F \quad G \quad B$	$A_{9-5} = A \quad C^{\#} \quad E^b \quad G \quad B$
$B^b_{7+5} = B^b \quad D \quad F^{\#} \quad A^b$	$B^b_{7+5} = B^b \quad D \quad E \quad A^b$	$B^b_{9+5} = B^b \quad D \quad F^{\#} \quad A^b \quad C$	$B^b_{9-5} = B^b \quad D \quad E \quad A^b \quad C$
$B_{7+5} = B \quad E^b \quad G \quad A$	$B_{7+5} = B \quad D^{\#} \quad F \quad A$	$B_{9+5} = B \quad E^b \quad G \quad A \quad C^{\#}$	$B_{9-5} = B \quad E^b \quad F \quad A \quad C^{\#}$

NOTES OF MAJOR 7TH WITH AUGMENTED 5TH CHORDS

NOTES OF MAJOR 7TH WITH DIMINISHED 5TH CHORDS

NOTES OF MAJOR 7TH WITH AUGMENTED 5TH CHORDS

NOTES OF MINOR 7TH WITH DIMINISHED 5TH CHORDS

NOTES OF MINOR 7TH WITH DIMINISHED 5TH CHORDS

C <sub>aug7,5</sub>	C E G <sup>#</sup> B	C <sub>aug7,5</sub> = C E G <sup>b</sup> B	C <sub>aug7,5</sub> = C E G <sup>#</sup> B	C <sub>aug7,5</sub> = C E G <sup>b</sup> B	C <sub>aug7,5</sub> = C E G <sup>b</sup> B
C <sub>aug7,5</sub>	C <sup>#</sup> F A C	C <sub>aug7,5</sub> = C <sup>#</sup> F G C	C <sub>aug7,5</sub> = C <sup>#</sup> F A B	C <sub>aug7,5</sub> = C <sup>#</sup> F A B	C <sub>aug7,5</sub> = C <sup>#</sup> F A B
D <sub>aug7,5</sub>	D F B C <sup>#</sup>	D <sub>aug7,5</sub> = D F A C <sup>#</sup>	D <sub>aug7,5</sub> = D F B C	D <sub>aug7,5</sub> = D F B C	D <sub>aug7,5</sub> = D F A C
E <sub>aug7,5</sub>	E <sup>b</sup> G B D	E <sub>aug7,5</sub> = E <sup>b</sup> G A D	E <sub>aug7,5</sub> = E <sup>b</sup> F B C <sup>#</sup>	E <sub>aug7,5</sub> = E <sup>b</sup> F B C <sup>#</sup>	E <sub>aug7,5</sub> = E <sup>b</sup> F A C <sup>#</sup>
F <sub>aug7,5</sub>	F A C E <sup>b</sup>	F <sub>aug7,5</sub> = F A B E <sup>b</sup>	F <sub>aug7,5</sub> = F G C D	F <sub>aug7,5</sub> = F G C D	F <sub>aug7,5</sub> = F G B D
F# <sub>aug7,5</sub>	F <sup>#</sup> B D F	F# <sub>aug7,5</sub> = F <sup>#</sup> B C F	F# <sub>aug7,5</sub> = F <sup>#</sup> A D E	F# <sub>aug7,5</sub> = F <sup>#</sup> A D E	F# <sub>aug7,5</sub> = F <sup>#</sup> A C E
G <sub>aug7,5</sub>	G B E F <sup>#</sup>	G <sub>aug7,5</sub> = G B C F <sup>#</sup>	G <sub>aug7,5</sub> = G B E F	G <sub>aug7,5</sub> = G B E F	G <sub>aug7,5</sub> = G B C F
A <sub>aug7,5</sub>	A <sup>b</sup> C E G	A <sub>aug7,5</sub> = A <sup>b</sup> C D G	A <sub>aug7,5</sub> = A <sup>b</sup> C D G	A <sub>aug7,5</sub> = A <sup>b</sup> C D G	A <sub>aug7,5</sub> = A <sup>b</sup> B D F <sup>#</sup>
A# <sub>aug7,5</sub>	A C F A <sup>b</sup>	A# <sub>aug7,5</sub> = A C E A <sup>b</sup>	A# <sub>aug7,5</sub> = A C F G	A# <sub>aug7,5</sub> = A C F G	A# <sub>aug7,5</sub> = A C E G
B <sub>aug7,5</sub>	B <sup>b</sup> D F A <sup>#</sup>	B <sub>aug7,5</sub> = B <sup>b</sup> D E A	B <sub>aug7,5</sub> = B <sup>b</sup> C F A <sup>#</sup>	B <sub>aug7,5</sub> = B <sup>b</sup> C F A <sup>#</sup>	B <sub>aug7,5</sub> = B <sup>b</sup> C E A
B# <sub>aug7,5</sub>	B <sup>b</sup> E G B <sup>b</sup>	B# <sub>aug7,5</sub> = B E F B <sup>b</sup>	B# <sub>aug7,5</sub> = B D G A	B# <sub>aug7,5</sub> = B D G A	B# <sub>aug7,5</sub> = B D F A

NOTES OF 7TH WITH  
6TH CHORDS

NOTES OF 7TH WITH  
6TH CHORDS

NOTES OF MAJOR 7TH WITH  
6TH CHORDS

NOTES OF 11TH WITH  
13TH CHORDS

C7+6	C E G B <sup>b</sup> A	Cmaj7+6 = C E G B A	Cm7+6 = C E <sup>b</sup> G B A	C11/13 = C E G B <sup>b</sup> D F A
C <sup>#</sup> 7+6	C <sup>#</sup> F A <sup>b</sup> B <sup>b</sup>	C <sup>#</sup> maj7+6 = C <sup>#</sup> F A <sup>b</sup> C B <sup>b</sup>	C m7+6 = C <sup>#</sup> E A <sup>b</sup> B B <sup>b</sup>	C <sup>#</sup> 11/13 = C <sup>#</sup> F A B E <sup>b</sup> F B <sup>b</sup>
D7+6	D F A C B	Dmaj7+6 = D F <sup>#</sup> A C <sup>#</sup> B	Dm7+6 = D F A C B	D11/13 = D F <sup>#</sup> A C E G B
E <sup>b</sup> 7+6	E <sup>b</sup> G B <sup>b</sup> C <sup>#</sup> C	E <sup>b</sup> maj7+6 = E <sup>b</sup> G B <sup>b</sup> D C	E <sup>b</sup> m7+6 = E <sup>b</sup> F B <sup>b</sup> C C <sup>#</sup>	E <sup>b</sup> 11/13 = E <sup>b</sup> G B <sup>b</sup> C <sup>#</sup> F A <sup>b</sup> C
E7+6	E A <sup>b</sup> B D C <sup>#</sup>	Emaj7+6 = E A <sup>b</sup> B E C <sup>#</sup>	Em7+6 = E G B D C <sup>#</sup>	E11/13 = E A <sup>b</sup> B D F A C
F7+6	F A C E <sup>b</sup> D	Fmaj7+6 = F A C E D	Fm7+6 = F A C E <sup>b</sup> D	F11/13 = F A C E <sup>b</sup> G B <sup>b</sup> D
F <sup>#</sup> 7+6	F <sup>#</sup> B <sup>b</sup> C <sup>#</sup> E E <sup>b</sup>	F <sup>#</sup> maj7+6 = F <sup>#</sup> B <sup>b</sup> C <sup>#</sup> F E <sup>b</sup>	F <sup>#</sup> m7+6 = F <sup>#</sup> A C <sup>#</sup> E E <sup>b</sup>	F <sup>#</sup> 11/13 = F <sup>#</sup> B <sup>b</sup> C <sup>#</sup> E A <sup>b</sup> B E <sup>b</sup>
G7+6	G B D F E	Gmaj7+6 = G B D F E	Gm7+6 = G B <sup>b</sup> D F E	G11/13 = G B D F A C E
A <sup>b</sup> 7+6	A <sup>b</sup> C E <sup>b</sup> F F	A <sup>b</sup> maj7+6 = A C E <sup>b</sup> G F	A <sup>b</sup> m7+6 = A <sup>b</sup> B E <sup>b</sup> F F	A <sup>b</sup> 11/13 = A <sup>b</sup> C E <sup>b</sup> F B <sup>b</sup> C <sup>#</sup> F
A7+6	A C <sup>#</sup> E G F <sup>#</sup>	Amaj7+6 = A C <sup>#</sup> E A <sup>b</sup> F <sup>#</sup>	Am7+6 = A C E G F <sup>#</sup>	A11/13 = A C <sup>#</sup> E G B D F <sup>#</sup>
B <sup>b</sup> 7+6	B <sup>b</sup> D F A G	B maj7+6 = B <sup>b</sup> D F A G	B m7+6 = B <sup>b</sup> C <sup>#</sup> F A <sup>b</sup> G	B <sup>b</sup> 11/13 = B <sup>b</sup> D F A <sup>b</sup> C E <sup>b</sup> G
B7+6	B E <sup>b</sup> F A <sup>b</sup>	Bmaj7+6 = B E <sup>b</sup> F # B <sup>b</sup> A <sup>b</sup>	Bm7+6 = B D F A A	B11/13 = B E <sup>b</sup> F A C <sup>#</sup> E A <sup>b</sup>

NOTES OF AUGMENTED  
11TH CHORDS

NOTES OF MINOR 7TH WITH  
11TH CHORDS

NOTES OF MAJOR 7TH WITH  
SHARPENED 9TH CHORDS

C <sub>aug11</sub>	C E G B <sup>b</sup> D F <sup>#</sup>	C <sub>ma7+9</sub>	C E G B D F	C <sub>ma7+11</sub>	C E B <sup>b</sup> D F	C <sub>ma7+9</sub>	C E G B D <sup>#</sup>
C <sub>aug11</sub>	C <sup>#</sup> E A <sup>b</sup> B E <sup>b</sup> G C <sup>#</sup> m <sub>aug11</sub> = C <sup>#</sup> F A <sup>b</sup> C E F <sup>#</sup>	C <sub>ma7+9</sub>	C E G B D F	C <sub>ma7+11</sub>	C <sup>#</sup> E A <sup>b</sup> B E <sup>b</sup> F <sup>#</sup>	C <sub>ma7+9</sub>	C E G B D <sup>#</sup>
D <sub>aug11</sub>	D F <sup>#</sup> A C E A <sup>b</sup> D <sub>ma7+9</sub> = D F <sup>#</sup> A C <sup>#</sup> E G	D <sub>ma7+9</sub>	D F A C E G	D <sub>ma7+11</sub>	D F A C E G	D <sub>ma7+9</sub>	D F <sup>#</sup> A C <sup>#</sup> F
E <sub>aug11</sub>	E <sup>b</sup> G B <sup>b</sup> C <sup>#</sup> F A E <sup>b</sup> m <sub>aug11</sub> = E <sup>b</sup> G B <sup>b</sup> D F A <sup>b</sup>	E <sub>ma7+9</sub>	E <sup>b</sup> F <sup>#</sup> B <sup>b</sup> C F A <sup>b</sup>	E <sub>ma7+11</sub>	E <sup>b</sup> F <sup>#</sup> B <sup>b</sup> C F A <sup>b</sup>	E <sub>ma7+9</sub>	E <sup>b</sup> G B <sup>b</sup> D F <sup>#</sup>
F <sub>aug11</sub>	F A C E <sup>b</sup> G B F <sub>ma7+9</sub> = F A C E G B <sup>b</sup>	F <sub>ma7+9</sub>	F A C E <sup>b</sup> G B <sup>b</sup>	F <sub>ma7+11</sub>	F A C E <sup>b</sup> G B <sup>b</sup>	F <sub>ma7+9</sub>	F A C E A <sup>b</sup>
G <sub>aug11</sub>	G B D F A C G <sub>ma7+9</sub> = G B D F <sup>#</sup> A C	G <sub>ma7+9</sub>	G B D F A C	G <sub>ma7+11</sub>	G B D F A C	G <sub>ma7+9</sub>	G B D F <sup>#</sup> B <sup>b</sup>
A <sub>aug11</sub>	A <sup>b</sup> C E <sup>b</sup> F B D A <sub>ma7+9</sub> = A <sup>b</sup> C E <sup>b</sup> G B C <sup>#</sup>	A <sub>ma7+9</sub>	A <sup>b</sup> C E <sup>b</sup> G B C <sup>#</sup>	A <sub>ma7+11</sub>	A <sup>b</sup> C E <sup>b</sup> F B C <sup>#</sup>	A <sub>ma7+9</sub>	A <sup>b</sup> C E <sup>b</sup> G B
B <sub>aug11</sub>	B <sup>b</sup> D F A <sup>b</sup> C E B <sup>b</sup> m <sub>aug11</sub> = B <sup>b</sup> D F A C E <sup>b</sup>	B <sub>ma7+9</sub>	B <sup>b</sup> C <sup>#</sup> F A <sup>b</sup> C E <sup>b</sup>	B <sub>ma7+11</sub>	B <sup>b</sup> C <sup>#</sup> F A <sup>b</sup> C E <sup>b</sup>	B <sub>ma7+9</sub>	B <sup>b</sup> D F A C <sup>#</sup>
C <sub>aug11</sub>	C E F A C <sup>#</sup> F B C <sup>#</sup> E B <sub>ma7+9</sub> = B E <sup>b</sup> F B C <sup>#</sup> E	C <sub>ma7+9</sub>	C D F A C <sup>#</sup> E	C <sub>ma7+11</sub>	C D F A C <sup>#</sup> E	C <sub>ma7+9</sub>	C E F B D

NOTES OF MINOR 7TH WITH  
SHARPENED 9TH CHORDS

NOTES OF MAJOR 7TH WITH  
FLATTENED 9TH CHORDS

NOTES OF MINOR 7TH WITH  
FLATTENED 9TH CORDS

$Cm7\#9$	=	$C E \flat G B \flat$	$Cmaj7\#9$	=	$C E G B \flat D \flat$	$Cm7\flat9$	=	$C E \flat G B \flat D \flat$
$C\# m7\#9$	=	$C\# E G\# C$	$C\# maj7\#9$	=	$C\# F A \flat C D$	$C\# m7\flat9$	=	$C\# E A B D$
$Dm7\flat9$	=	$D F A C$	$Dmaj7\#9$	=	$D F\# A C\# E\flat$	$Dm7\flat9$	=	$D F A C E\flat$
$E\flat m7\#9$	=	$E\flat G\flat B D\flat$	$E\flat maj7\#9$	=	$E\flat G B D E\flat$	$E\flat m7\flat9$	=	$E\flat F B C\# E$
$E\flat m7\flat9$	=	$E G B D$	$Emaj7\#9$	=	$E A\flat B E\flat F$	$Em7\flat9$	=	$E G B D F$
$F\flat m7\flat9$	=	$F A\flat C E\flat$	$Fmaj7\#9$	=	$F A C E F\#$	$Fm7\flat9$	=	$F A C E\flat F\#$
$F\# m7\#9$	=	$F\# A C\# E$	$F\# maj7\#9$	=	$F\# B C\# F G$	$Fm7\flat9$	=	$F\# A C\# E G$
$Gm7\flat9$	=	$G B\flat D F$	$Gmaj7\#9$	=	$G B D F\# A\flat$	$Gm7\flat9$	=	$G B\flat D F A\flat$
$A\flat m7\#9$	=	$A\flat B E\flat F\#$	$A\flat maj7\#9$	=	$A\flat C E\flat G A$	$A\flat m7\flat9$	=	$A\flat B E\flat F\# A\flat$
$A\flat m7\flat9$	=	$A C E G$	$A\flat maj7\#9$	=	$A C\# E A\flat B\flat$	$A\flat m7\flat9$	=	$A C E G B\flat$
$B\flat m7\flat9$	=	$B\flat C\# F A\flat$	$B\flat maj7\#9$	=	$B\flat D F A B$	$B\flat m7\flat9$	=	$B\flat C\# F A\flat B$
$B\flat m7\flat9$	=	$B\flat D F\# A$	$B\flat maj7\#9$	=	$B\flat E\flat F\# B\flat C$	$B\flat m7\flat9$	=	$B\flat D F\# A C$

**DOMINANT 7TH CHORDS AND THEIR  
SUBSTITUTES**

DOM : 7TH'S	SUBSTITUTES
C <sub>7</sub>	F <sup>#</sup> <sub>7</sub>
C <sub>7</sub> <sup>#</sup>	G <sub>7</sub>
D <sub>7</sub>	A <sup>b</sup> <sub>7</sub>
D <sub>7</sub> <sup>#</sup>	A <sub>7</sub>
E <sub>7</sub>	B <sup>b</sup> <sub>7</sub>
F <sub>7</sub>	B <sub>7</sub>
F <sub>7</sub> <sup>#</sup>	C <sub>7</sub>
G <sub>7</sub>	C <sub>7</sub> <sup>#</sup>
G <sub>7</sub> <sup>#</sup>	D <sub>7</sub>
A <sub>7</sub>	E <sup>b</sup> <sub>7</sub>
B <sup>b</sup> <sub>7</sub>	E <sub>7</sub>
B <sub>7</sub>	F <sub>7</sub>

**MINOR 6TH CHORDS AND THEIR SUBSTITUTES**

MINOR 6TH'S	SUBSTITUTES
C <sub>m6</sub>	F <sub>9</sub>
C <sub>m6</sub> <sup>#</sup>	F <sub>9</sub> <sup>#</sup>
D <sub>m6</sub>	G <sub>9</sub>
E <sup>b</sup> <sub>m6</sub>	A <sup>b</sup> <sub>9</sub>
E <sub>m6</sub>	A <sub>9</sub>
F <sub>m6</sub>	B <sup>b</sup> <sub>9</sub>
F <sub>m6</sub> <sup>#</sup>	B <sub>9</sub>
G <sub>m6</sub>	C <sub>9</sub>
A <sup>b</sup> <sub>m6</sub>	C <sub>9</sub> <sup>#</sup>
A <sub>m6</sub>	D <sub>9</sub>
B <sup>b</sup> <sub>m6</sub>	E <sup>b</sup> <sub>9</sub>
B <sub>m6</sub>	E <sub>9</sub>

### INVERSION OF CHORDS

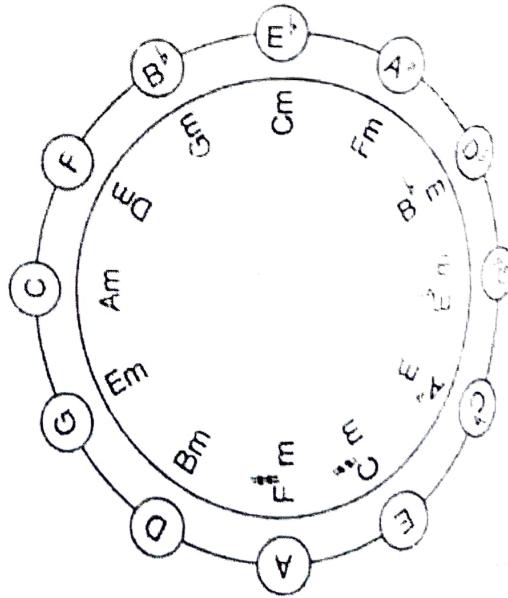
- Root Note at Bottom = Root Position Chord  
 Root Note at Top = 1st Inversion Chord  
 3rd Note at Top = 2nd Inversion Chord

### EXAMPLE

C Major Chord consists of	C	E	G
Root Note at Bottom	C	E	G (Root position Chord)
Root Note at Top	E	G	C (1st Inversion Chord)
3rd Note at Top	G	C	E (2nd Inversion Chord)

### CYCLE OF 5TH'S

Circle of Major Key's with their Relative Minors



NOTE : A number of notes have 2 names

Viz : C<sup>#</sup> = D<sup>b</sup>, D<sup>#</sup> = E<sup>b</sup>, F<sup>#</sup> = G<sup>b</sup>,  
 G<sup>#</sup> = A<sup>b</sup>, A<sup>#</sup> = B<sup>b</sup>, E<sup>#</sup> = F,  
 F<sup>b</sup> = E, B<sup>b</sup> = C, C<sup>b</sup> = B,

### TIME

TIME	SIMPLE TIME			QUADRUPLE
	DUPLE	TRIPLE	QUADRUPLE	
2/2	PP	3/2 P P P	4/2 P P P P	
2/4	PP	3/4 P P P	4/4 P P P P	
2/8	PP	3/8 P P P	4/8 P P P P	

TIME	COMPOUND TIME			QUADRUPLE
	DUPLE	TRIPLE	QUADRUPLE	
6/4	P.P.	9/4 P.P.P.	12/4 P.P.P.P.	
6/8	P..P..	9/8 P..P..P..	12/8 P..P..P..P..	
6/16	P..P..	9/16 P..P..P..	12/16 P..P..P..P..	

APPLICATION OF CHORDS WITH PRIMARY TRIADS DOMINANT SEVENTHS AND RELATIVE MINORS

KEY - D

ACCIDENTALS						
C	D	E	F	G	A	B
C	Dm	C	F	C	F	G
Am	G	Am	G7	G	Am	G7
F	G7	Em	Dm	G7	Dm	F
ACCIDENTALS						
C <sup>#</sup>	E <sup>b</sup>	F <sup>#</sup>	A <sup>b</sup>	A <sup>b</sup>	B <sup>b</sup>	C
A	F7	D	A <sup>b</sup>	B <sup>b</sup>	C	
A7	Cm	D7	E	C7		
ACCIDENTALS						
A <sup>b</sup>	B <sup>b</sup>	C <sup>#</sup>	E <sup>b</sup>	F	G	
E	C7	A	E <sup>b</sup>	F		
E7	Gm	A7	B	G7		

KEY - E

ACCIDENTALS						
D	E	F <sup>#</sup>	G	A	B	C <sup>#</sup>
D	Em	D	G	D	G	D
Bm	A	Bm	A7	A	Bm	A7
G	A7	F <sup>#</sup> m	Em	A7	F <sup>#</sup> m	G
ACCIDENTALS						
E	F <sup>#</sup>	G <sup>#</sup>	A	B	C <sup>#</sup>	D <sup>#</sup>
E	F <sup>#</sup> m	E	C <sup>#</sup> m	B	C <sup>#</sup> m	E
ACCIDENTALS						
E	F <sup>#</sup>	G <sup>#</sup>	A	B	C <sup>#</sup>	D <sup>#</sup>
E	F <sup>#</sup> m	E	C <sup>#</sup> m	B	C <sup>#</sup> m	E

KEY - A

ACCIDENTALS						
A	B	C	D	E	F <sup>#</sup>	G <sup>#</sup>
A	Bm	A	D	A	D	A
F <sup>#</sup> m	E	F <sup>#</sup> m	E7	E	F <sup>#</sup> m	E7
D	E7	C <sup>#</sup> m	Bm	E7	Bm	C <sup>#</sup> m

KEY - B

ACCIDENTALS						
F	G	B <sup>b</sup>	C	D	E	F
F	G <sup>#</sup>	B <sup>b</sup>	C	D	E	F
G <sup>#</sup>	F <sup>#</sup>	G <sup>#</sup>	B <sup>b</sup>	C	D	E
F <sup>#</sup>	F <sup>#</sup> 7	F <sup>#</sup> 7	C <sup>#</sup> m	D	E	F

KEY - G

ACCIDENTALS						
G	A	B	C	D	E	F <sup>#</sup>
G	Am	G	C	G	C	G
Em	D	Em	D7	D	Em	D7
C	D7	Bm	Am	D7	Am	C

KEY - C

ACCIDENTALS						
C	D	F	G	A	B	E
C	A <sup>b</sup>	E7	C <sup>#</sup> 7	G <sup>#</sup>	A7	E
A <sup>b</sup>	B <sup>b</sup>	Cm	Dm	Dm	Em	B7
E7	Gm	A7	B	G7	C <sup>#</sup> 7	E

# APPLICATION OF CHORDS

KEY - E<sup>b</sup>

F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B	C <sup>#</sup>	D <sup>#</sup>	E <sup>#</sup>	F <sup>#</sup>
F <sup>#</sup>	G <sup>#</sup> m	F <sup>#</sup>	B	F <sup>#</sup>	B	C <sup>#</sup>	D <sup>#</sup>
D <sup>#</sup> m	C <sup>#</sup>	D <sup>#</sup> m	C <sup>#</sup> 7	C	Dm	C7	C
B	C <sup>#</sup> 7	B <sup>b</sup> m	G <sup>#</sup> m	G <sup>#</sup> m	G <sup>#</sup> m	B <sup>b</sup> m	B
ACCIDENTALS							
G	A	C	D	E			
E <sup>b</sup>	E7	A <sup>b</sup>	D	E			
E <sup>b</sup> 7	F <sup>#</sup> m	A <sup>b</sup> 7	B <sup>b</sup>	F <sup>#</sup> 7			
	A		Bm	C <sup>#</sup> m			

KEY - F

F	G	A <sup>#</sup>	B	C <sup>#</sup>	D	E	F <sup>#</sup>
F	G	A <sup>#</sup>	B	C <sup>#</sup>	D	E	F
D <sup>#</sup> m	C <sup>#</sup>	D <sup>#</sup> m	C <sup>#</sup> 7	C	Dm	C7	C
B	C <sup>#</sup> 7	B <sup>b</sup> m	G <sup>#</sup> m	G <sup>#</sup> m	G <sup>#</sup> m	B <sup>b</sup> m	B
ACCIDENTALS							
F	G <sup>#</sup>	F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B <sup>#</sup>	C <sup>#</sup>	D <sup>#</sup>
E <sup>b</sup>	E7	A <sup>b</sup> 7	D	E			
D7	F <sup>#</sup> m	G7	G	C <sup>#</sup>	B <sup>b</sup> m	A <sup>b</sup>	Cm
	A		Bm	C <sup>#</sup> m			

ACCIDENTALS

ACCIDENTALS

KEY - E<sup>b</sup>

F	G	A	B	C	D	E	F
F	G	A	B	C	D	E	F
D <sup>#</sup> m	C <sup>#</sup>	D <sup>#</sup> m	C <sup>#</sup> 7	C	Dm	C7	C
B	C <sup>#</sup> 7	B <sup>b</sup> m	G <sup>#</sup> m	G <sup>#</sup> m	G <sup>#</sup> m	B <sup>b</sup> m	B
ACCIDENTALS							
F	G	F	G	A	B	C	D
E <sup>b</sup>	F	E7	A7	D	E		
E <sup>b</sup> 7	F#m	A7	B <sup>b</sup>	F#7			
	A		Bm	C#m			

ACCIDENTALS

ACCIDENTALS

KEY - C<sup>#</sup>

B <sup>b</sup>	C	D	E	F <sup>#</sup>	G	A	B <sup>b</sup>
B <sup>b</sup>	C	D	E	F <sup>#</sup>	G	A	B <sup>b</sup>
G <sup>#</sup> m	F	G <sup>#</sup> 7	G <sup>#</sup> 7	G <sup>#</sup> 7	Gm	F7	Gm
B <sup>b</sup> m	G <sup>#</sup> 7	B <sup>b</sup> m	G <sup>#</sup> 7	B <sup>b</sup> m	Dm	F7	Cm
ACCIDENTALS							
C <sup>#</sup>	D <sup>#</sup>	E <sup>#</sup>	F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B <sup>#</sup>	C <sup>#</sup>
C <sup>#</sup>	D <sup>#</sup> m	C <sup>#</sup>	F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B <sup>#</sup>	C <sup>#</sup>
B <sup>b</sup> m	B <sup>b</sup>	G <sup>#</sup> 7	G <sup>#</sup> 7	G <sup>#</sup> 7	Fm	E7	Fm
F <sup>#</sup>	G <sup>#</sup> 7	Fm	G <sup>#</sup> 7	Dm	E7	Cm	D <sup>b</sup>

ACCIDENTALS

ACCIDENTALS

KEY - A<sup>b</sup>

E	F	G	A	B	C	D	E
E	F	G	A	B	C	D	E
C7	A <sup>b</sup> 7	F7	G	B	D	E	F
C7	E <sup>b</sup> m	G <sup>b</sup>	B <sup>b</sup> m	A <sup>b</sup>	Fm	C <sup>b</sup> m	E <sup>b</sup> m
ACCIDENTALS							
A	B	C	D	E	F	G	A <sup>b</sup>
F	C <sup>#</sup> 7	B <sup>b</sup> m	A <sup>b</sup>	F7			F <sup>#</sup>
F7	A <sup>b</sup> m	B					A <sup>b</sup> 7

KEY - A<sup>b</sup>

A	B	C	D	E	F	G	A <sup>b</sup>
A	B	C	D	E	F	G	A <sup>b</sup>
F	C <sup>#</sup> 7	B <sup>b</sup> m	A <sup>b</sup>	F7			F <sup>#</sup>
F7	A <sup>b</sup> m	B					A <sup>b</sup> 7

## APPLICATION OF CHORDS

### KEY - D<sup>b</sup>

G <sup>b</sup>	A <sup>b</sup>	B <sup>b</sup>	C <sup>b</sup>	D <sup>b</sup>	E <sup>b</sup>	F <sup>b</sup>	G <sup>b</sup>
G <sup>b</sup> m	A <sup>b</sup> m	B <sup>b</sup> m	C <sup>b</sup> m	D <sup>b</sup> m	E <sup>b</sup> m	F <sup>b</sup> m	G <sup>b</sup> m
<b>ACCIDENTALS</b>							
D	E	G	A	B			
B <sup>b</sup>	G <sup>b</sup>	E <sup>b</sup>	A	B			
B <sup>b</sup> 7	D <sup>b</sup> m	E <sup>b</sup> 7	F	D <sup>b</sup> 7			
			G <sup>b</sup> m	A <sup>b</sup> m			

### MAJOR SCALES WITH DIATONIC CHORDS

KEY - C								KEY - F <sup>#</sup>							
C	D	E	F	G	A	B	C	F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B	C	D	E <sup>#</sup>	
C6	Dm7	Em7	F6	G7	A <sup>m</sup> 7	B6	C6	F <sup>#</sup> 6	G <sup>#</sup> m7	B <sup>b</sup> m7	B6	C7	D <sup>#</sup> m7	F <sup>#</sup> 6	
<b>KEY - C<sup>#</sup></b>															
C <sup>#</sup>	D <sup>#</sup>	E	F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B <sup>#</sup>	C <sup>#</sup>	G	A	B	C	D	E	F <sup>#</sup>	G
C <sup>#</sup> 6	D <sup>#</sup> m7	Fm7	F <sup>#</sup> 6	G <sup>#</sup> 7	B <sup>b</sup> m7	C <sub>o</sub>	C <sup>#</sup> 6	G6	A <sup>m</sup> 7	Bm7	C6	D7	E <sup>m</sup> 7	F <sup>#</sup> 6	G6
<b>KEY - D</b>															
D	E	F	F <sup>#</sup>	G	A	B	C <sup>#</sup>	D	A <sup>b</sup>	B <sup>b</sup>	C	D <sup>b</sup>	E <sup>b</sup>	F	G
D6	Em7	F#m7	G6	A7	Bm7	C <sup>b</sup> o	D6	A6	Bm7	Cm7	D6	E7	Fm7	G6	A6
<b>KEY - E</b>															
E	F	G	A	B	C	D	E	B <sup>b</sup>	C	D	E	F	G	A <sup>b</sup>	
E6	F#m7	G <sup>#</sup> m7	A6	B7	C <sup>b</sup> m7	D <sup>b</sup> o	E6	E6	B <sup>b</sup> 6	Cm7	Dm7	E6	F7	Gm7	A <sup>b</sup> 6
<b>KEY - F</b>															
F	G	A	B <sup>b</sup>	C	D	E	F	B	C <sup>#</sup>	D <sup>#</sup>	E	F <sup>#</sup>	G <sup>#</sup>	A <sup>b</sup>	
F6	Gm7	A <sup>m</sup> 7	B <sup>b</sup> 6	C7	Dm7	E <sub>o</sub>	F6	B6	C <sup>#</sup> m7	E <sup>b</sup> m7	F <sup>#</sup> 6	G <sup>#</sup> m7	A <sup>b</sup> 6	B6	
<b>KEY - A<sup>b</sup></b>															
A	B	C <sup>#</sup>	D	E	F <sup>#</sup>	G <sup>#</sup>	H	A <sup>b</sup>	B <sup>b</sup>	C	D	E	F <sup>#</sup>	G <sup>#</sup>	
A6	Bm7	C <sup>#</sup> m7	D <sup>b</sup> 6	E7	F7	G7	H	A6	Bm7	C <sup>#</sup> m7	D <sup>b</sup> 6	E7	F <sup>#</sup> m7	G <sup>#</sup> 6	
<b>KEY - B<sup>b</sup></b>															
B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
B7	C <sup>b</sup> m	D <sup>b</sup> 7	E <sup>b</sup> m	F <sup>b</sup> 7	G <sup>b</sup> m	H <sup>b</sup> 7	I	J	K	L	M	N	O	P	
<b>ACCIDENTALS</b>															
G	A	C	D	E											
E <sup>b</sup>	B7	A <sup>b</sup>	D	E											
E <sup>b</sup> 7	F <sup>#</sup> m	A <sup>b</sup> 7	B <sup>b</sup>	C <sup>#</sup> m											

## NAMES AND NUMBERS OF SCALES

**KEY - C**

C	D	E	F	G	A	B
ROOT TONIC (DOH)	2ND SUPER TONIC (RAY)	3RD MEDIAN (ME)	4TH SUB- DOMINANT (FAH)	5TH DOMI- NANT (SOH)	6TH SUB MEDIAN (LAH)	7TH LEADING TONE (TE)

**KEY - A**

A	B	C	D	E	F	G
ROOT TONIC (DOH)	2ND SUPER TONIC (RAY)	3RD MEDIAN (ME)	4TH SUB- DOMINANT (FAH)	5TH DOMI- NANT (SOH)	6TH SUB MEDIAN (LAH)	7TH LEADING TONE (TE)

**KEY - G**

G	A	B	C	D	E	F
ROOT TONIC (DOH)	2ND SUPER TONIC (RAY)	3RD MEDIAN (ME)	4TH SUB- DOMINANT (FAH)	5TH DOMI- NANT (SOH)	6TH SUB MEDIAN (LAH)	7TH LEADING TONE (TE)

**KEY - E**

E	F	G	A	B	C	D
ROOT TONIC (DOH)	2ND SUPER TONIC (RAY)	3RD MEDIAN (ME)	4TH SUB- DOMINANT (FAH)	5TH DOMI- NANT (SOH)	6TH SUB MEDIAN (LAH)	7TH LEADING TONE (TE)

**KEY - B**

B	C	D	E	F	G	A
ROOT TONIC (DOH)	2ND SUPER TONIC (RAY)	3RD MEDIAN (ME)	4TH SUB- DOMINANT (FAH)	5TH DOMI- NANT (SOH)	6TH SUB MEDIAN (LAH)	7TH LEADING TONE (TE)

**KEY - D**

D	E	F	G	A	B	C
ROOT TONIC (DOH)	2ND SUPER TONIC (RAY)	3RD MEDIAN (ME)	4TH SUB- DOMINANT (FAH)	5TH DOMI- NANT (SOH)	6TH SUB MEDIAN (LAH)	7TH LEADING TONE (TE)

## NAMES AND NUMBERS OF SCALES

KEY - F <sup>#</sup>								KEY - E <sup>b</sup>							
F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B <sup>#</sup>	C	D <sup>#</sup>	E <sup>#</sup>	Root	E <sup>b</sup>	F	G	A	B <sup>b</sup>	C	D	
ROOT	2ND	3RD	4TH	5TH	6TH	7TH	Root	Root	2ND	3RD	4TH	5TH	6TH	7TH	
TONIC	SUPER TONIC (DOH)	MEDIAN (ME) (RAY)	SUB-DOMINANT (FAH)	DOMINANT (SOH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	TONIC (DOH)	TONIC (DOH)	SUPER TONIC (RAY)	SUPER TONIC (RAY)	SUB-DOMINANT (ME)	SUB-DOMINANT (FAH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	
KEY - C <sup>#</sup>								KEY - A <sup>b</sup>							
C <sup>#</sup>	D <sup>#</sup>	E <sup>#</sup>	F <sup>#</sup>	G <sup>#</sup>	A <sup>#</sup>	B <sup>#</sup>	Root	A <sup>b</sup>	B <sup>b</sup>	C	D <sup>b</sup>	E <sup>b</sup>	F	G	
ROOT	2ND	3RD	4TH	5TH	6TH	7TH	Root	Root	2ND	3RD	4TH	5TH	6TH	7TH	
TONIC	SUPER TONIC (DOH)	MEDIAN (ME) (RAY)	SUB-DOMINANT (FAH)	DOMINANT (SOH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	TONIC (DOH)	TONIC (DOH)	SUPER TONIC (RAY)	SUPER TONIC (RAY)	SUB-DOMINANT (ME)	SUB-DOMINANT (FAH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	
KEY - F								KEY - D <sup>b</sup>							
F	G	A	B <sup>b</sup>	C	D	E	Root	D <sup>b</sup>	E <sup>b</sup>	F	G <sup>b</sup>	A <sup>b</sup>	B <sup>b</sup>	C	
ROOT	2ND	3RD	4TH	5TH	6TH	7TH	Root	Root	2ND	3RD	4TH	5TH	6TH	7TH	
TONIC	SUPER TONIC (DOH)	MEDIAN (ME) (RAY)	SUB-DOMINANT (FAH)	DOMINANT (SOH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	TONIC (DOH)	TONIC (DOH)	SUPER TONIC (RAY)	SUPER TONIC (RAY)	SUB-DOMINANT (ME)	SUB-DOMINANT (FAH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	
KEY - C								KEY - B <sup>b</sup>							
B <sup>b</sup>	C	D	E <sup>b</sup>	F	G	A	Root	B <sup>b</sup>	A	B <sup>b</sup>	C <sup>b</sup>	D <sup>b</sup>	E <sup>b</sup>	F	
ROOT	2ND	3RD	4TH	5TH	6TH	7TH	Root	Root	2ND	3RD	4TH	5TH	6TH	7TH	
TONIC	SUPER TONIC (DOH)	MEDIAN (ME) (RAY)	SUB-DOMINANT (FAH)	DOMINANT (SOH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	TONIC (DOH)	TONIC (DOH)	SUPER TONIC (RAY)	SUPER TONIC (RAY)	SUB-DOMINANT (ME)	SUB-DOMINANT (FAH)	SUB-MEDIANT (LAH)	LEADING TONE (TE)	

### SOME IRREGULAR GROUP OF NOTES

A Group of 3 Notes is occasionally used in Simple Time to fill a Beat, in which case the Time Signature is not changed. But the notes are grouped in 3's with a figure 3 written against them, and is known as TRIPLET.

Example :  = TRIPLET

= QUINTUPLETT

 = SEXTUPLET

 = SEPTUPLET

Hence, When

in 1 Beat - 3 Notes are played - TRIPLET

in 1 Beat - 5 Notes are played - QUINTUPLETT

in 1 Beat - 6 Notes are played - SEXTUPLET

in 1 Beat - 7 Notes are played - SEPTUPLET

### BLUES SCALES

A BLUES SCALE is a 10 Note scale with both Major 3rd Note and Minor 3rd Note and Minor 7th Note and Major 7th Note is used.

Example :

C BLUES SCALE									
C	D	E <sup>b</sup>	E	F	G	A	B <sup>b</sup>	B	C
Root	2nd	Minor 3rd	3rd	4th	5th	6th	Minor 7th	7th	8th

### PENTATONIC SCALES

A PENTATONIC SCALE consists of 5 different letter - name notes. In other words a pentatonic scale is a Major Scale without its 4th and 7th Notes.

Example :

### 'C' PENTATONIC

C	D	E	G	A	C

On Guitar This PENTATONIC is often used as a run against a Major Chord.

### DORION SCALE

A DORION Scale Consists of :

Root, 2nd, Minor 3rd, 4th, 5th, 6th and Minor 7th Notes.  
Therefore, Semitones lies between 2nd & 3rd Notes and 6th & 7th Notes in a Dorion Scale.

Example

'C' DORION	C	D	E <sup>b</sup>	F	G	A	B <sup>b</sup>	C

### MODES

Beside Major and Minor scales there are several

other scales known as MODES and are as follows :

- (1) BLUES SCALE
- (2) PENTATONIC SCALE
- (3) DORION SCALE
- (4) PHRYGIAN SCALE
- (5) LYDIAN SCALE
- (6) MIXOLYDIAN SCALE
- (7) LOCRIAN SCALE
- (8) HUNGARIAN MINOR
- (9) WHOLE TONE SCALE
- (10) MAJOR CHROMATIC SCALE
- (11) WHOLE TONE SEMITONE SCALE
- (12) AUXILIARY BLUES SCALE
- (13) JAZZ MINOR SCALE

### PHRYGIAN SCALE

Semitones lies between Root Note and 2nd Note and between 5th Note and 6th Note.

Example :

'C' PHRYGIAN  
C D E  $\flat$  F G A  $\flat$  B C

### LYDIAN SCALE

Semitone lies between 4th and 5th Notes and 7th and 8th Notes.

Example :

'C' LYDIAN  
C D E F  $\sharp$  G A B C

### MIXOLYDIAN SCALE

Semitones lies between 3rd and 4th Notes and 6th and 7th Notes.

Example :

'C' MIXOLYDIAN  
C D E F G A B  $\flat$  C

### LOCRIAN SCALE

Semitones are between ROOT and 2nd NOTE and 4th and 5th Note.

Example :

'C' LOCRIAN  
C D  $\flat$  E  $\flat$  F G  $\flat$  A  $\flat$  B  $\flat$  C

### HUNGARIAN MINOR SCALE

Semitone are between 2nd & 3rd Note.  
Whole Tone and a Semitone between 3rd & 4th Note.

Semitones between 4th & 5th Note

Semitones between 5th & 6th Note

Whole Tone & a Semitone between 6th & 7th Note.

Semitones between 7th & 8th Note.

Example :

'C' HUNGARIAN MINOR  
C D E  $\flat$  F  $\sharp$  G A  $\flat$  B C

### WHOLE TONE SCALE

The whole Tone scale consists of 6 different letter name notes. The distance between each note is always a whole step, i.e. 2 Frets in Guitar.

Example :

'C' WHOLE TONE  
C D E F  $\sharp$  G  $\sharp$  A  $\sharp$  C

### MAJOR CHROMATIC SCALE

Major Chromatic Scale is a Major Scale with and added Chromatic Note, that is by raising the 4th Note in ascending order and lowering the 6th Note in descending order.

Example :

'C' MAJOR CHROMATIC  
Ascending = C D E F  $\sharp$  G A  $\flat$  B C  
Descending = C B A A  $\flat$  G F E D C

## WHOLE TONE - SEMITONE SCALE

The Whole Tone - Half Tone scale consists of alternating Whole-Steps & Half-Steps.

Example :

'C' WHOLE TONE - SEMITONE

C D E ♭ F F # G A B C

## AUXILIARY BLUES SCALE

In Auxiliary Blues Scales - 2nd and 7th Notes are flattened. 4TH Note is Sharpened and both Minor 3rd & Major 3rd Notes are used.

Example :

'C' AUXILIARY BLUES

C D E ♭ F F # G A B ♭ C

## JAZZ MINOR SCALE

In Jazz Minor Scale Semitones lies between 2nd & 3rd NOTE, and 7th & 8th NOTE.

Example :

'C' JAZZ MINOR

C D E ♯ F G A B C

## MODES AND THEIR USES

D DORION is used against D minor Chord in Key C

G MLXOYDIAN is used against G Chord in Key C

E PHRYGIAN is used against E MINOR CHORD in Key C

F LYDIAN is used against F CHORD in Key C

B LOCRIAN is used against Bm7<sup>♭</sup> 5 CHORD in Key C

B LOCRIAN is also used against G7 CHORD in Key C

F HUNGARIAN is used against F Minor Chord in Key A

C PENTATONIC is used as a Run in Key C

C WHOLE TONE is used against C + CHORD

C MAJOR CHROMATIC is used against Maj 7 and Maj 9 Chords.

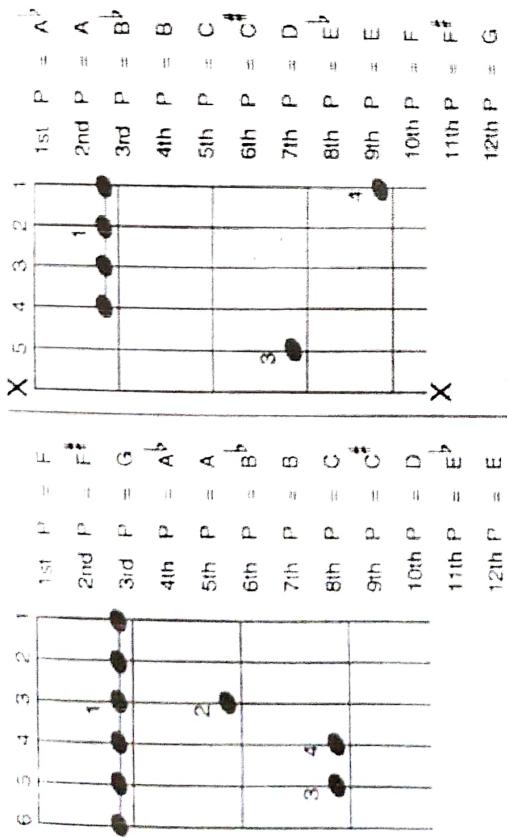
C WHOLE TONE - HALF TONE is used against Co Chord.

## HOW TO FIND THE KEY OF A MELODY

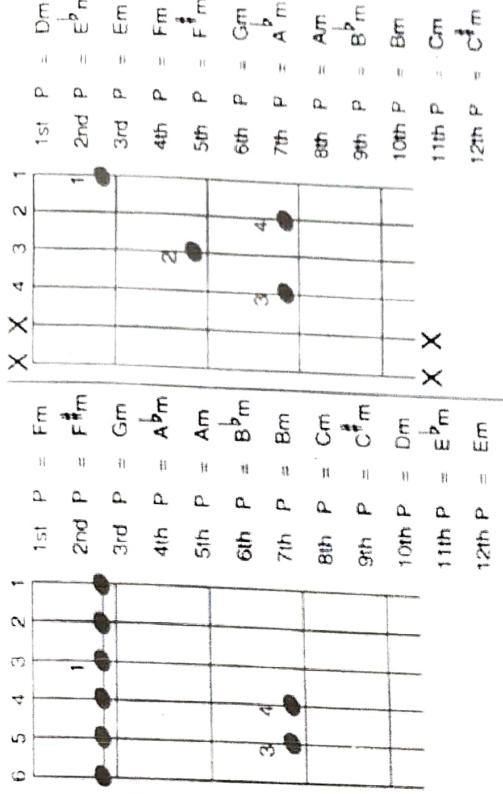
Not all melodies end on the tonic. To discover the key of a Melody which has sharps in it, find out which is the last one present from the order of key signature sharps. This will be leading note of the Key and so the key will be the one that lies a semitone above it. But above all try to feel the 'home' quality of the key Note. For example, if 4 sharp notes - such as F  $\sharp$ , G  $\sharp$ , C  $\sharp$ , D  $\sharp$  are used in a melody, the Key is E Major, because D  $\sharp$  is the last in the signature order and hence the Key note lies a Semitone above D  $\sharp$ .

But, for melodies where flat notes are used find out the Key by counting the number of flat notes are used, such as, if 3 flat notes - B  $\flat$ , E  $\flat$ , A  $\flat$  are there in the melody then the Key is E  $\flat$ . Similarly, a melody having five flat notes, such as B  $\flat$ , E  $\flat$ , A  $\flat$ , D  $\flat$ , G  $\flat$  then the Key is D  $\flat$ .

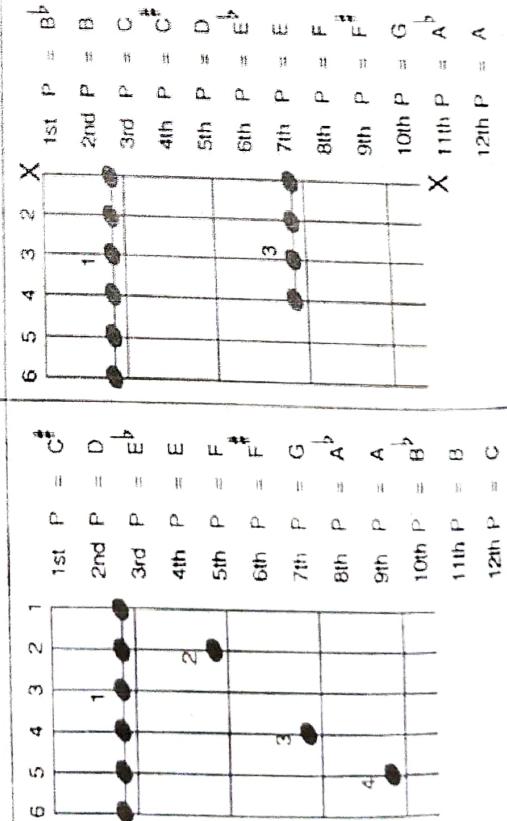
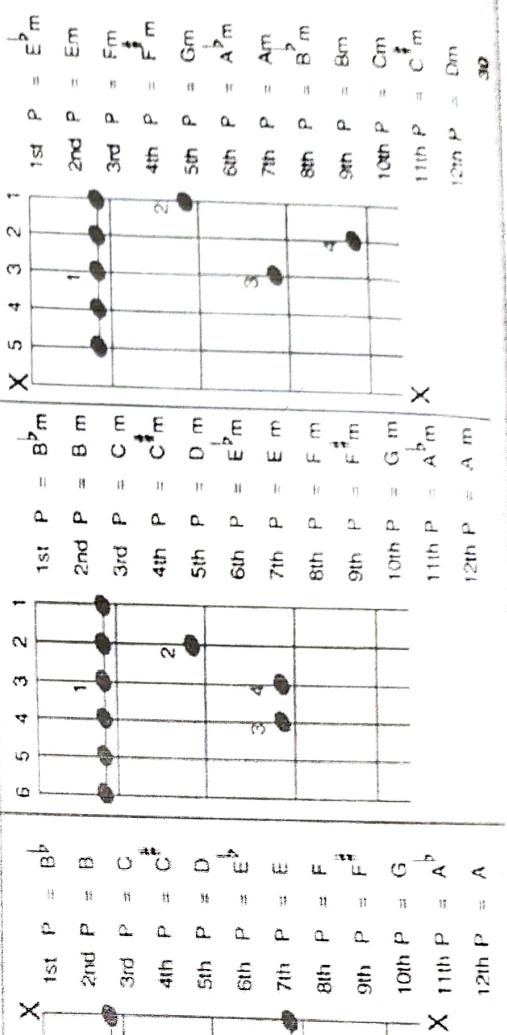
## MAJOR CHORDS



## MINOR CHORDS



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## 7TH CHORDS

Diagram showing 7th chords on a 6-string guitar neck. The strings are numbered 6 (low E) at the bottom and 1 (high E) at the top. Fret numbers 1 through 12 are indicated along the neck.

	1	2	3	4	5	6
1st P						F7
2nd P						F <sup>#</sup> 7
3rd P					G7	
4th P					A <sup>b</sup> 7	
5th P					A7	
6th P					B <sup>b</sup> 7	
7th P					B7	
8th P					C7	
9th P					C <sup>#</sup> 7	
10th P					D7	
11th P					E <sup>b</sup> 7	
12th P					E7	

Arabic numerals 1, 2, 3, 4 indicate specific fingerings for each chord.

Diagram showing 7th chords on a 6-string guitar neck. The strings are numbered 6 (low E) at the bottom and 1 (high E) at the top. Fret numbers 1 through 12 are indicated along the neck.

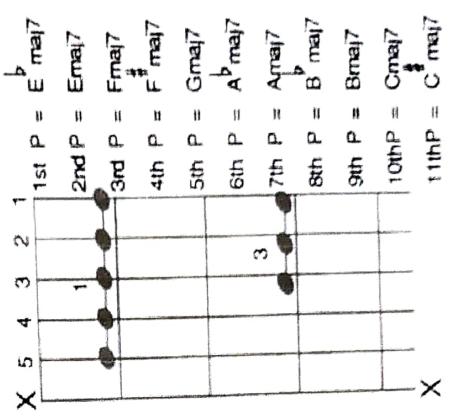
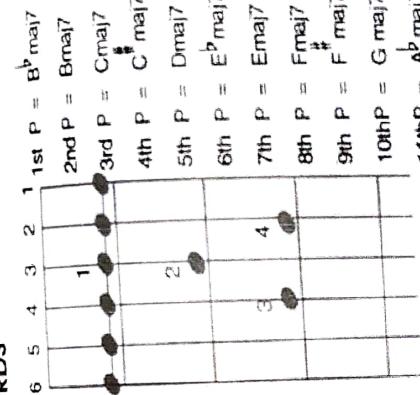
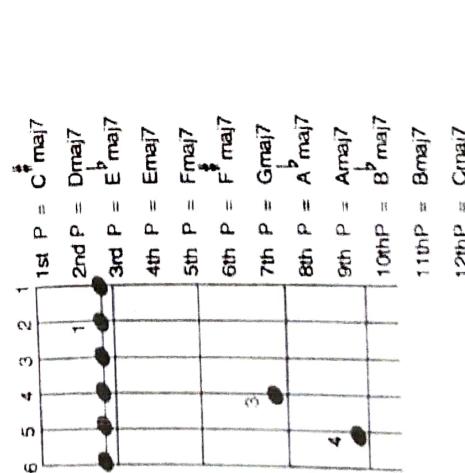
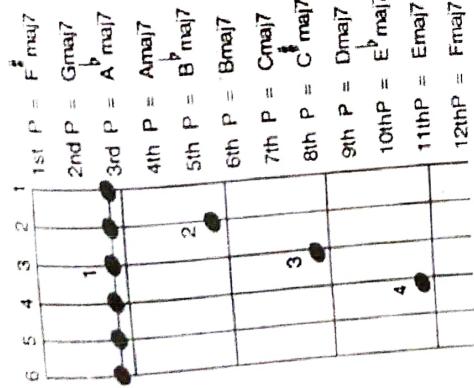
	1	2	3	4	5	6
1st P						B <sup>b</sup> 7
2nd P						B7
3rd P						C7
4th P						C <sup>#</sup> 7
5th P						D7
6th P						E <sup>b</sup> 7
7th P						E7
8th P						F7
9th P						F <sup>#</sup> 7
10th P						G7
11th P						A <sup>b</sup> 7
12th P						A7

Arabic numerals 1, 2, 3, 4 indicate specific fingerings for each chord.

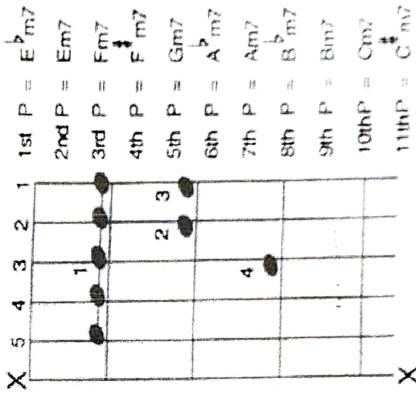
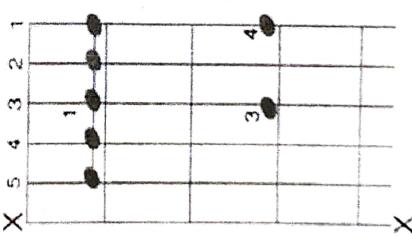
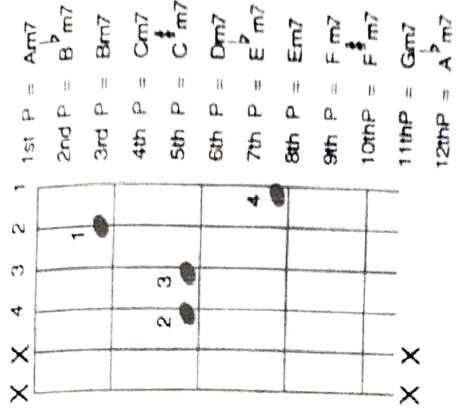
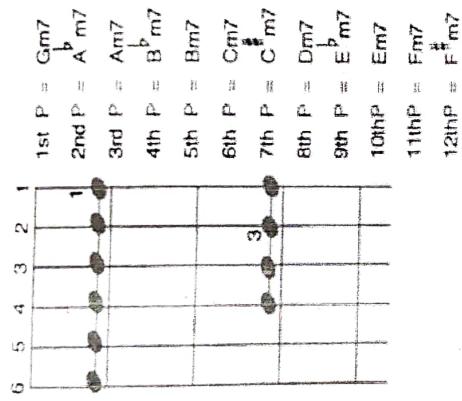
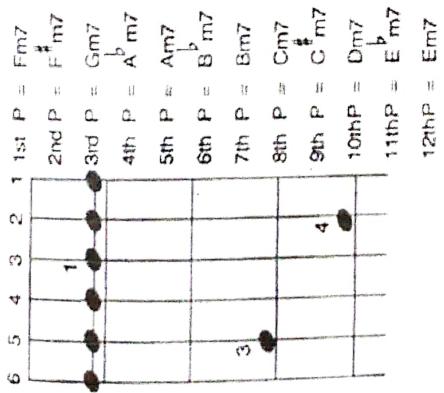
**OR**

T = THUMB

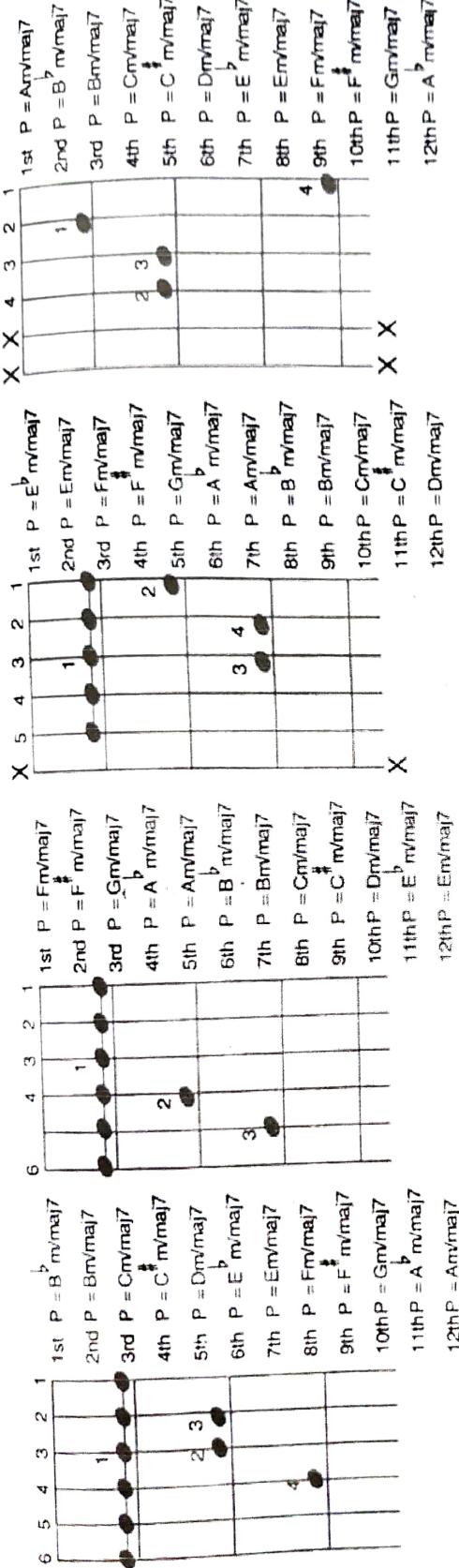
## MAJOR 7TH CHORDS



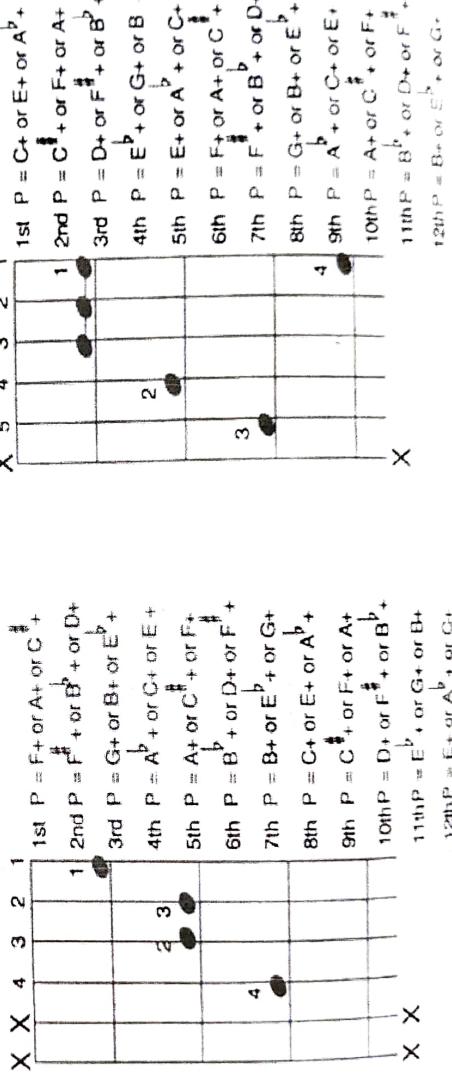
## MINOR 7TH CHORDS



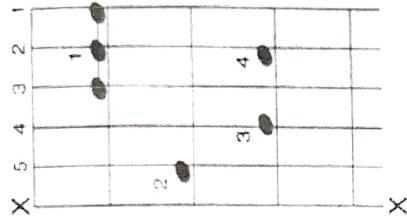
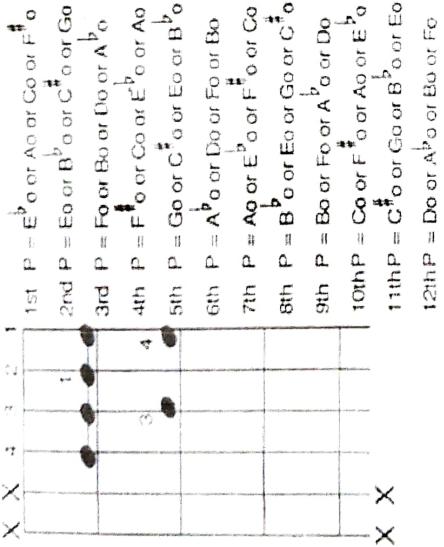
## MINOR WITH MAJOR 7TH CHORDS



## AUGMENTED 5TH CHORDS

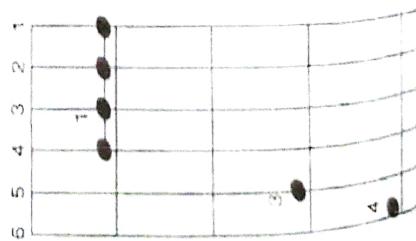
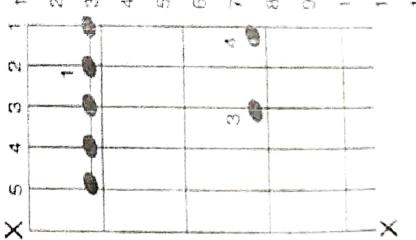
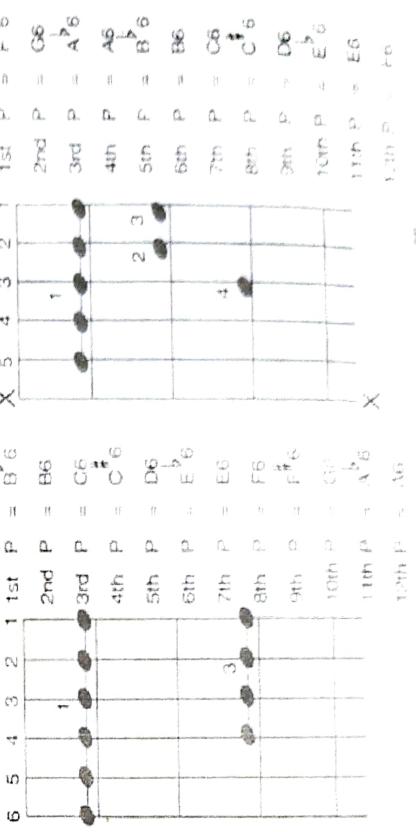


## DIMINISHED CHORDS

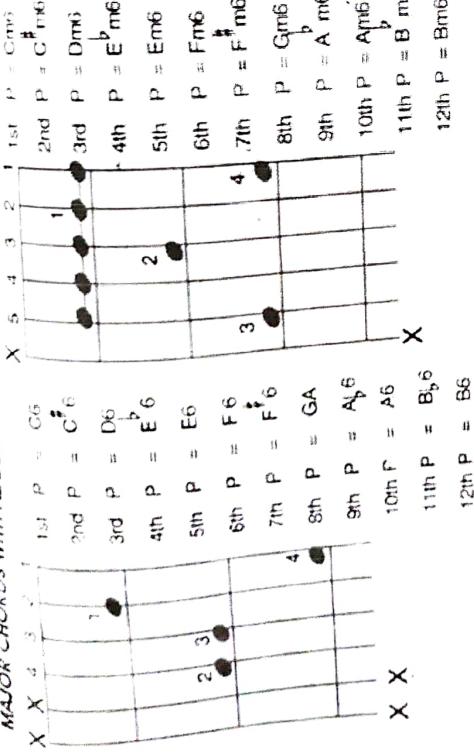


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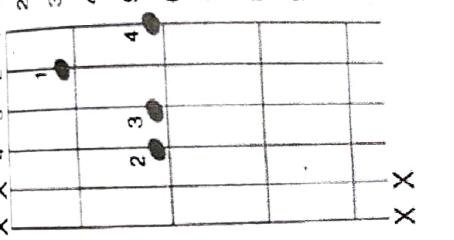
## MAJOR CHORDS WITH ADDED 6TH



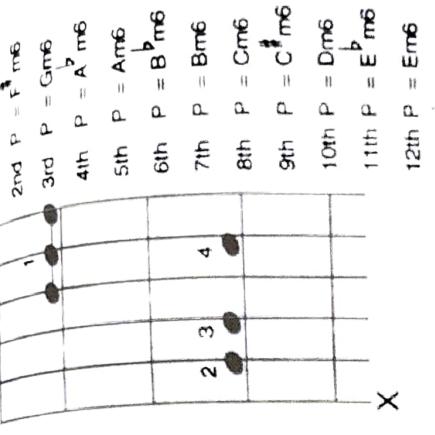
### MAJOR CHORDS WITH ADDED 6TH



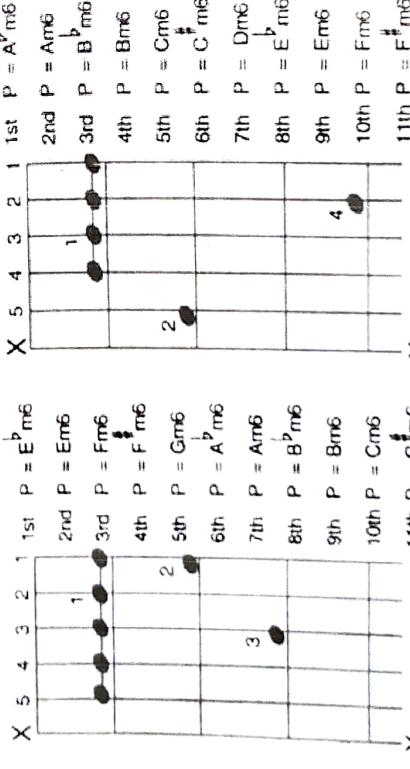
### MINOR CHORDS WITH ADDED 6TH



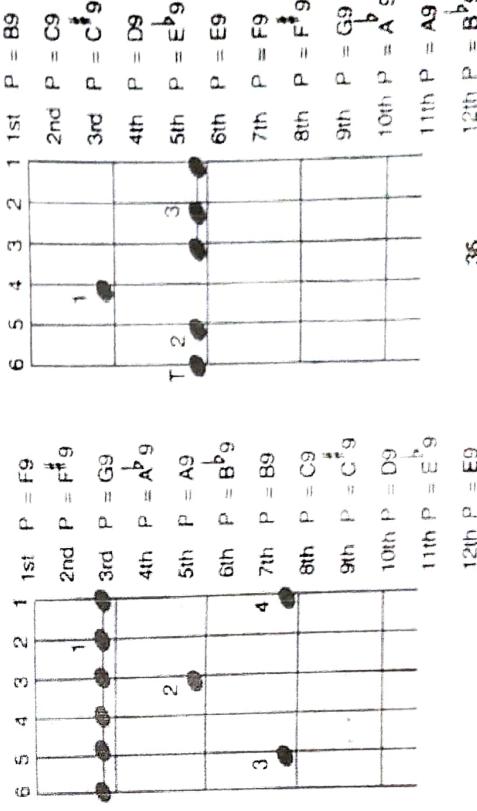
### MINOR CHORDS WITH ADDED 6TH



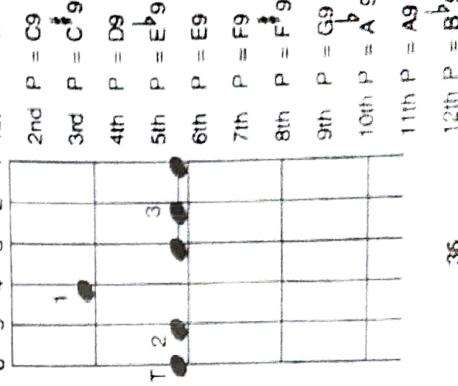
### MINOR CHORDS WITH ADDED 6TH



### 9TH CHORDS



### MINOR CHORDS WITH ADDED 6TH



11th P = A9  
12th P = B<sup>b</sup>9

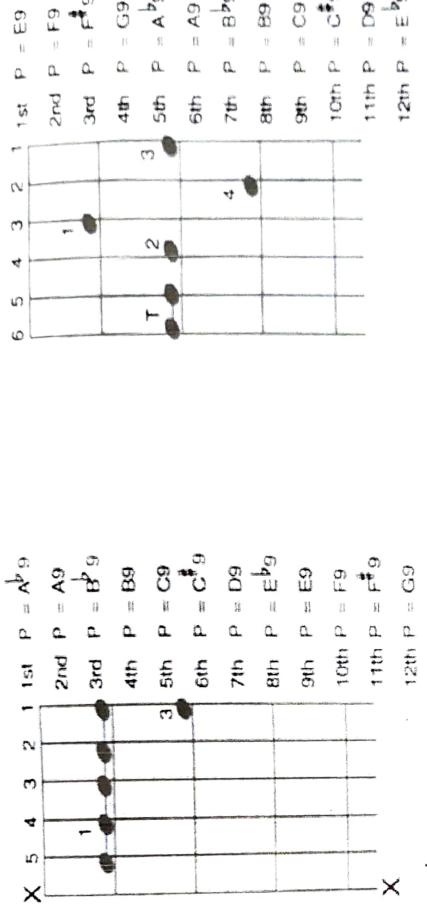
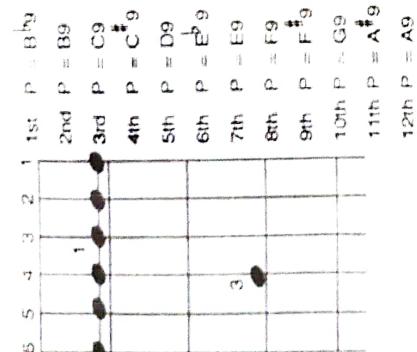
11th P = B6  
12th P = B6

11th P = Gm6  
12th P = Gm6

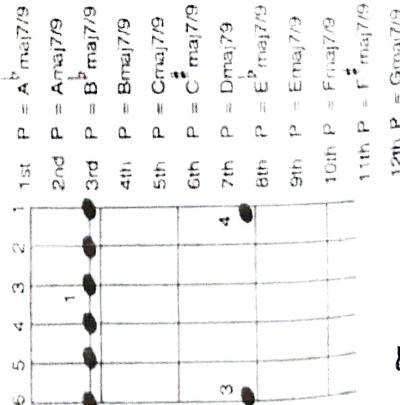
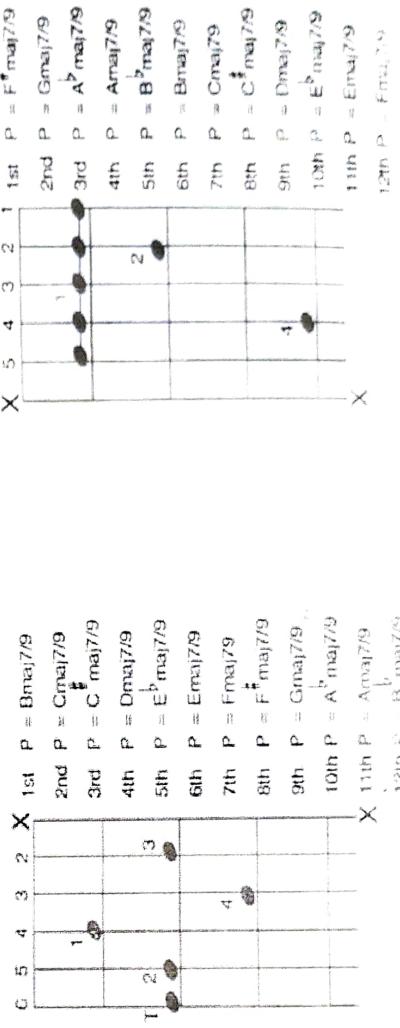
11th P = A<sup>b</sup>m6  
12th P = A<sup>b</sup>m6

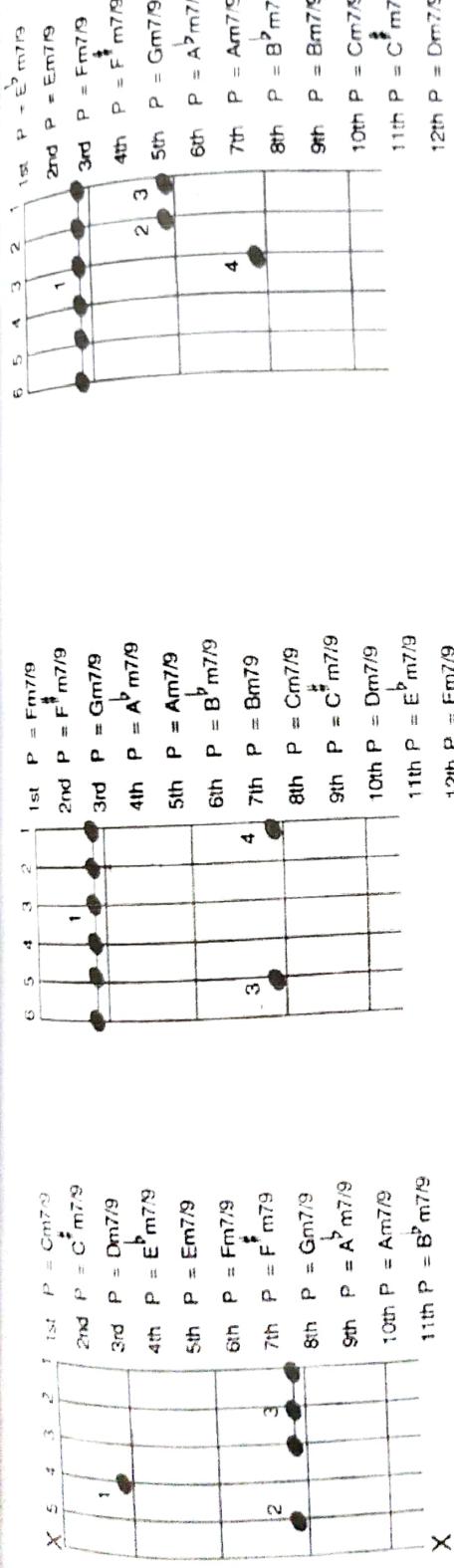
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## 9TH CHORDS

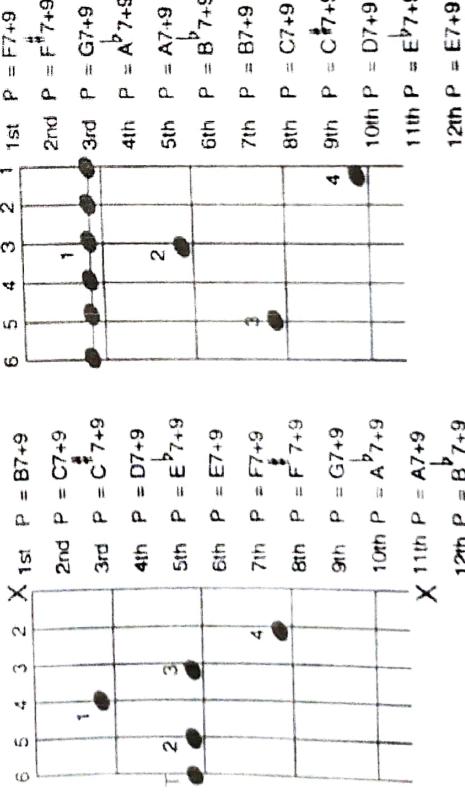


## MAJOR 7TH WITH 9TH CHORDS

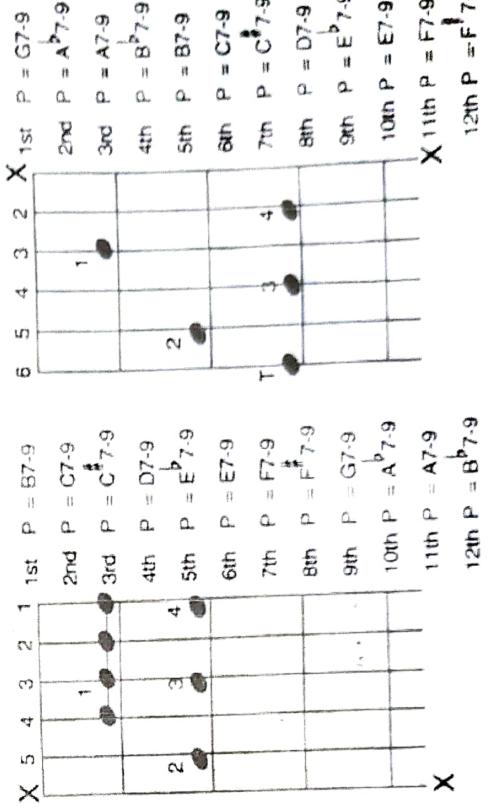




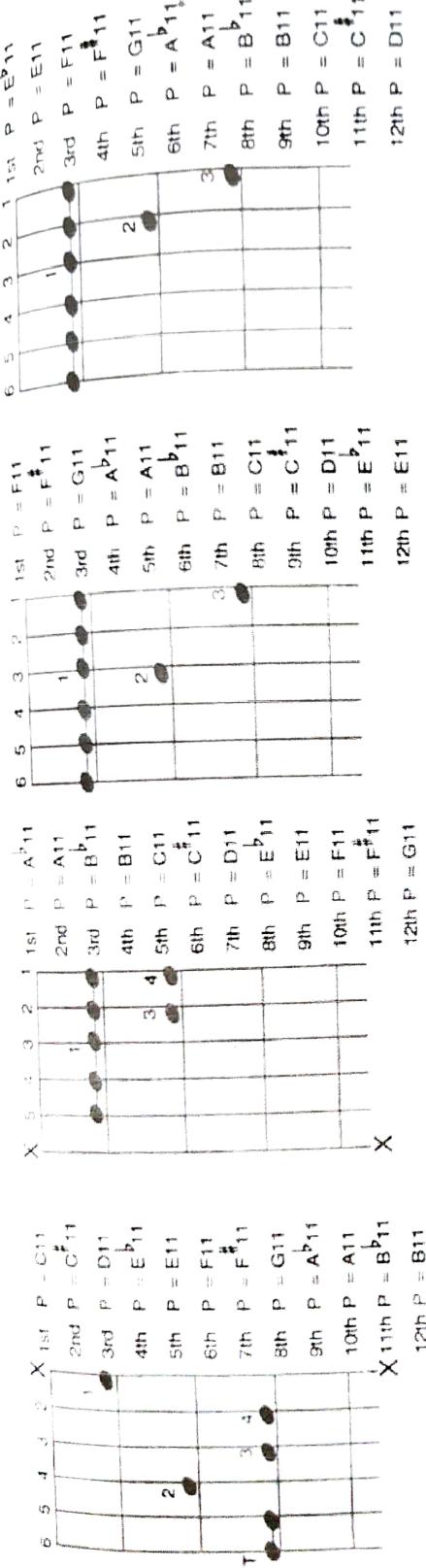
### 7TH WITH SHARPENED 9TH CHORDS



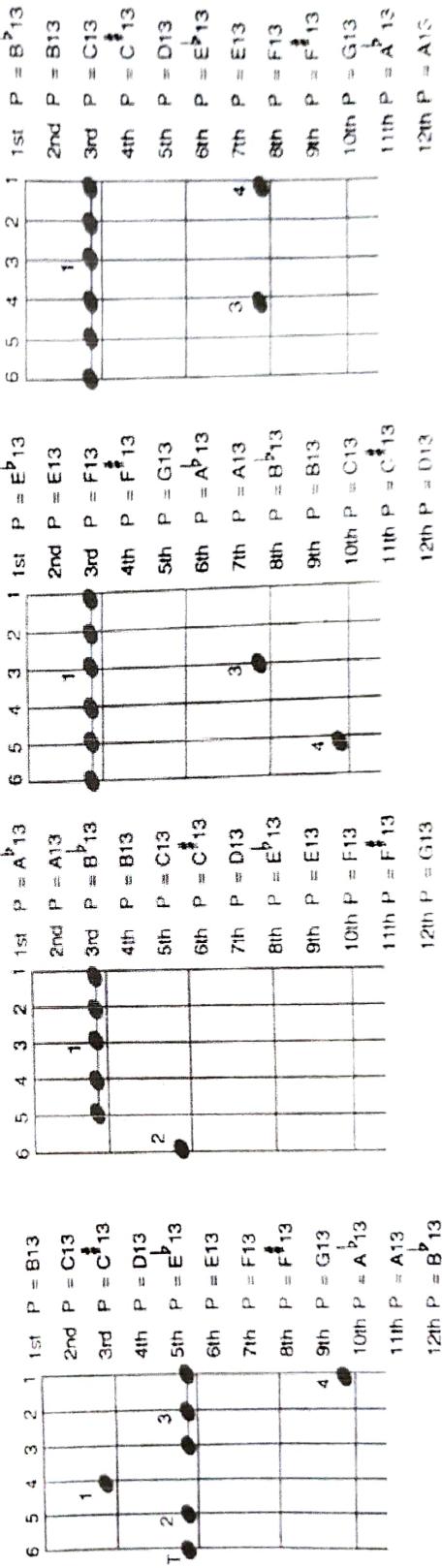
### 7TH WITH FLATTENED 9TH CHORDS



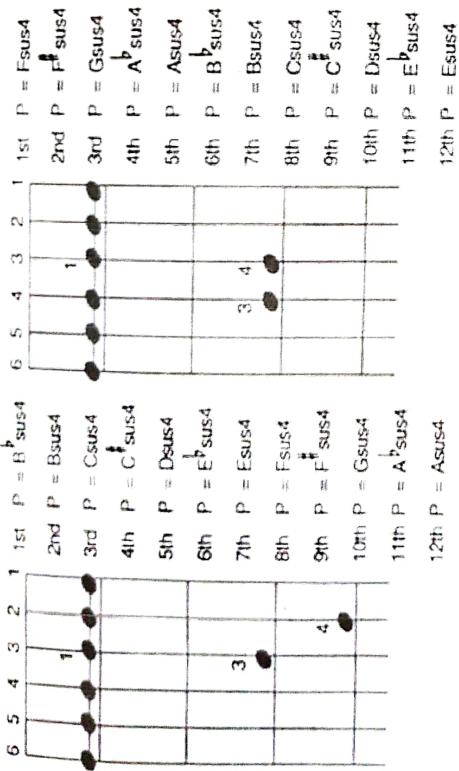
## 11TH CHORDS



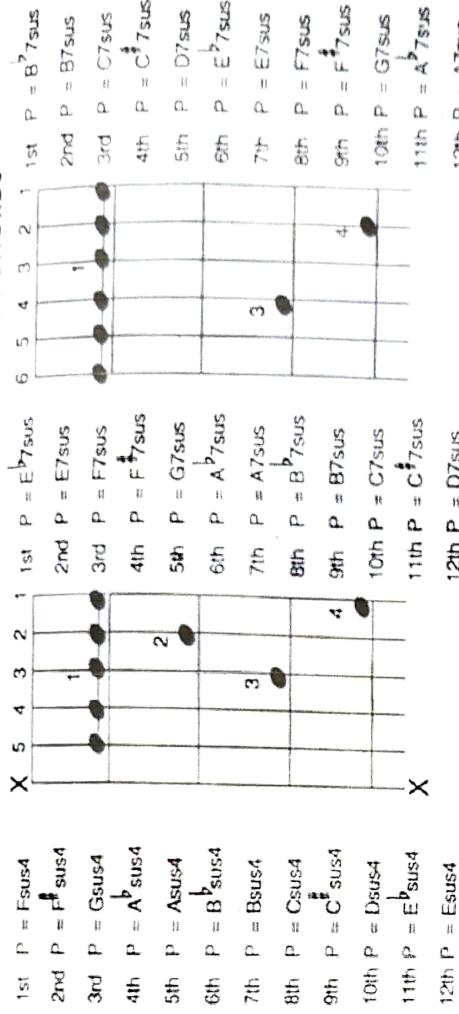
## 13TH CHORDS



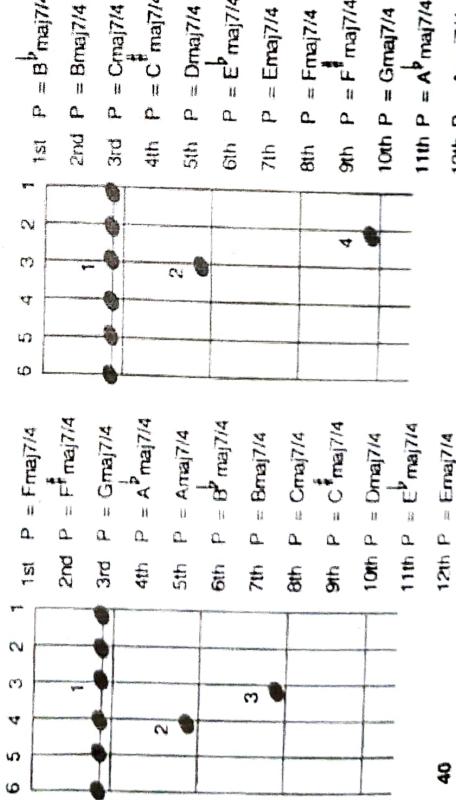
### SUSPENDED 4TH CHORDS



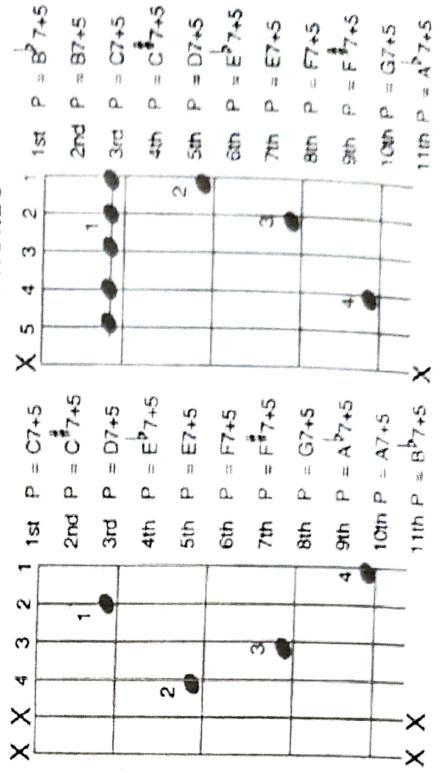
### 7TH WITH SUSPENDED 4TH CHORDS



### MAJOR 7TH WITH SUSPENDED 4TH CHORDS



### 7TH WITH AUGMENTED 5TH CHORDS



12th P = A7sus4

12th P = Esus4

12th P = B7sus4

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12th P = B7sus4

12th P = C7sus4

12th P = D7sus4

12th P = E7sus4

12th P = F7sus4

12th P = G7sus4

12th P = A7sus4

12th P = B7sus4

12th P = C7sus4

12th P = D7sus4

12th P = E7sus4

12th P = F7sus4

12th P = G7sus4

12th P = A7sus4

12th P = B7sus4

12th P = C7sus4

12th P = D7sus4

12th P = E7sus4

12th P = F7sus4

12th P = G7sus4

12th P = A7sus4

12th P = B7sus4

12th P = C7sus4

12th P = D7sus4

12th P = E7sus4

12th P = F7sus4

12th P = G7sus4

12th P = A7sus4

12th P = B7sus4

12th P = C7sus4

12th P = D7sus4

12th P = E7sus4

12th P = F7sus4

12th P = G7sus4

12th P = A7sus4

12th P = B7sus4

12th P = C7sus4

12th P = D7sus4

12th P = E7sus4

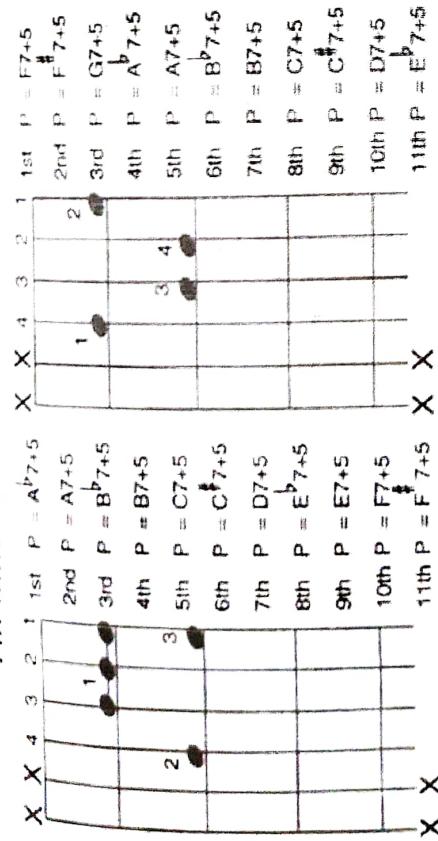
12th P = F7sus4

12th P = G7sus4

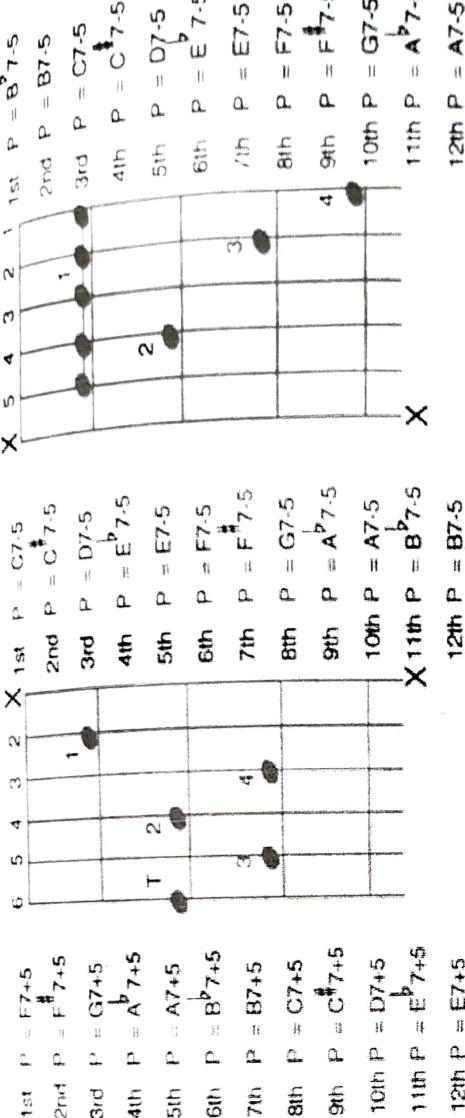
12th P = A7sus4

12th P = B7sus4

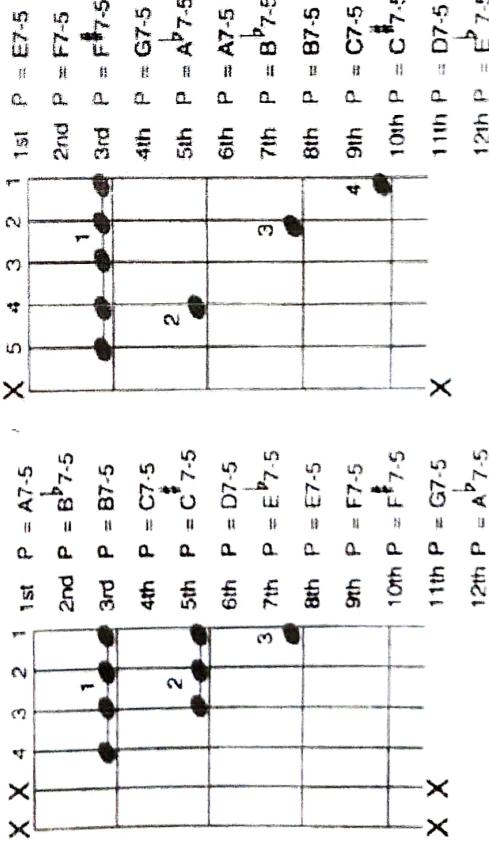
### 7TH WITH AUGMENTED 5TH CHORDS



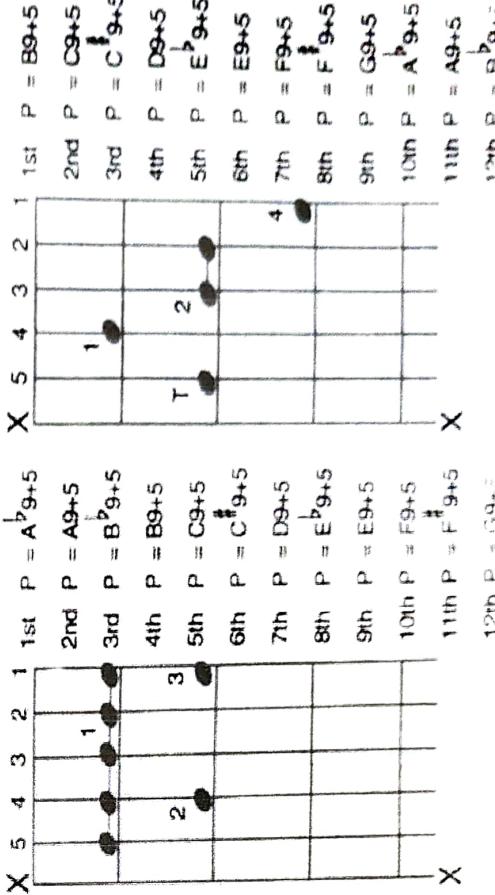
### 7TH WITH DIMINISHED 5TH CHORDS



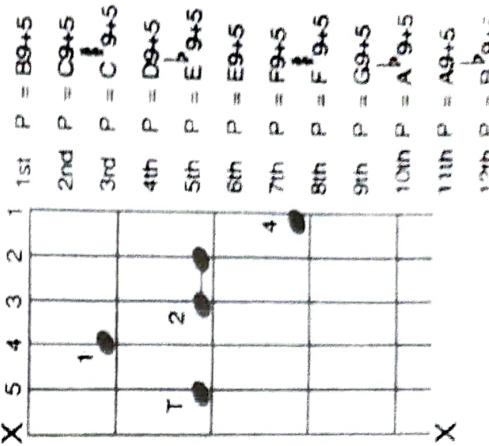
### 7TH WITH DIMINISHED 5TH CHORDS



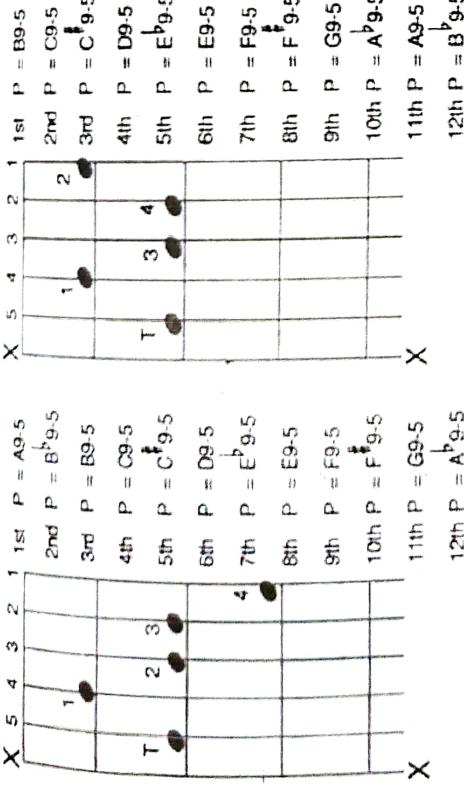
### 9TH WITH AUGMENTED 5TH CHORDS



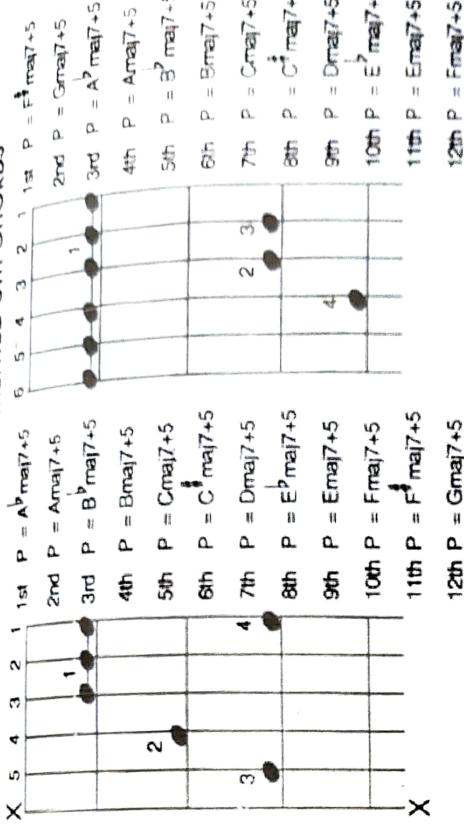
### 9TH WITH DIMINISHED 5TH CHORDS



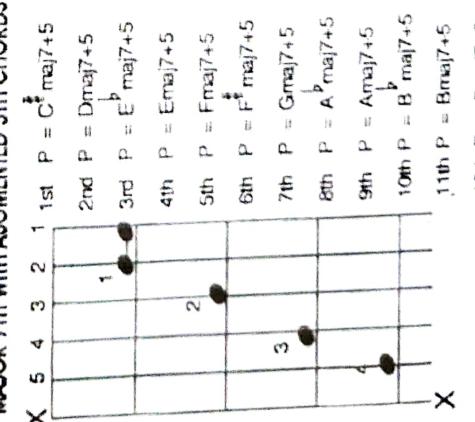
### 9TH WITH DIMINISHED 5TH CHORDS



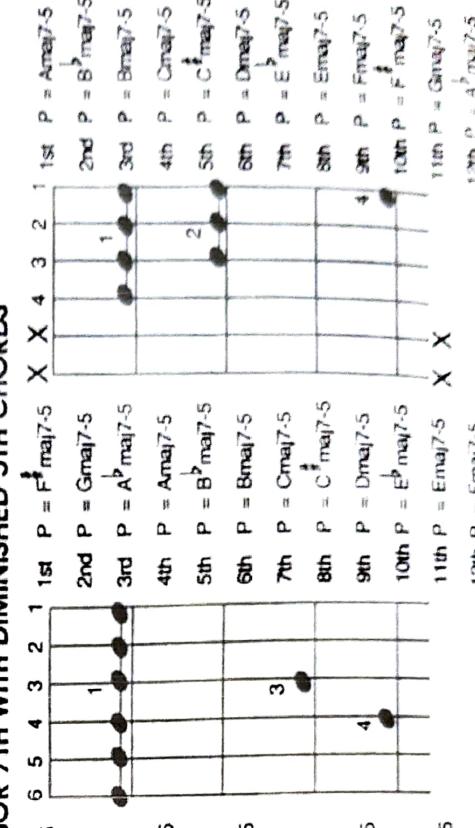
### MAJOR 7TH WITH AUGMENTED 5TH CHORDS



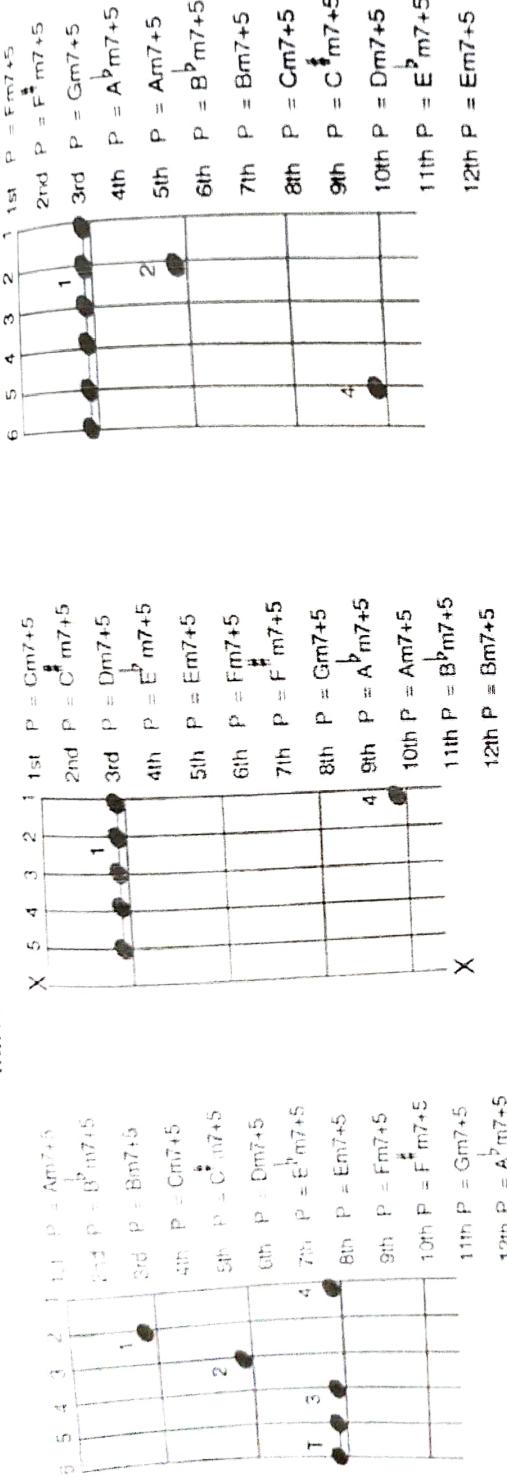
### MAJOR 7TH WITH AUGMENTED 5TH CHORDS



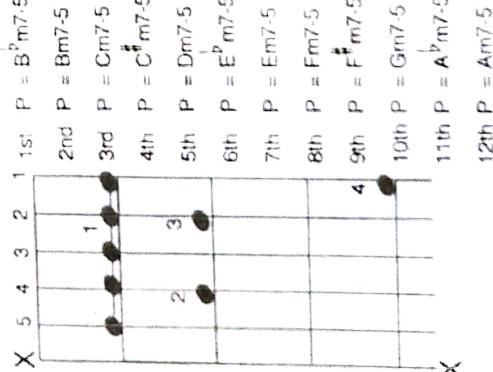
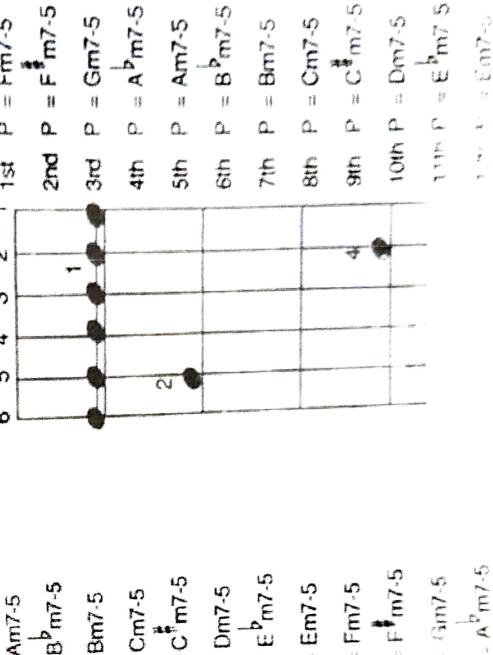
### MAJOR 7TH WITH DIMINISHED 5TH CHORDS



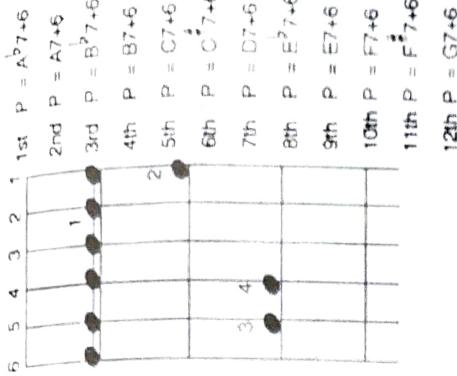
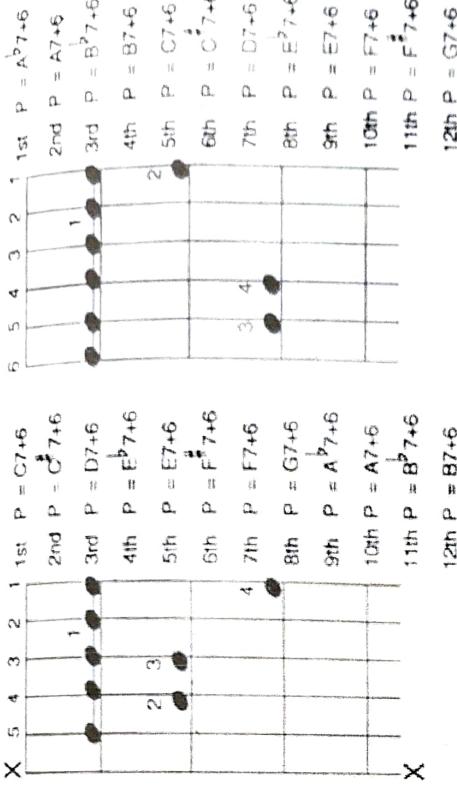
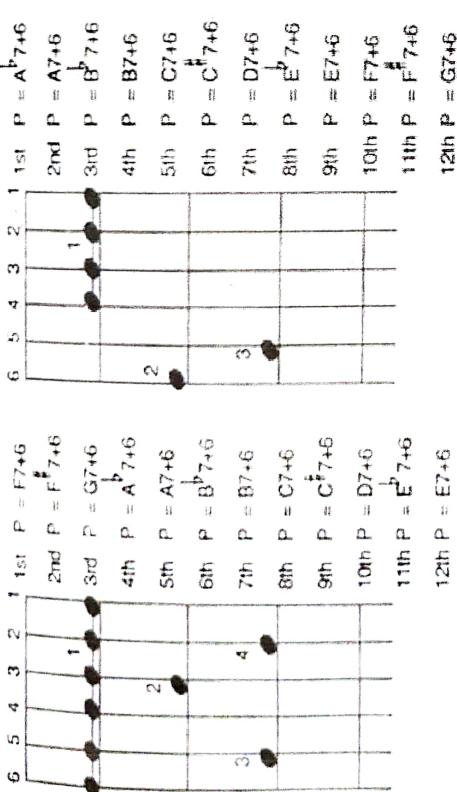
### MINOR 7TH WITH AUGMENTED 5TH CHORDS



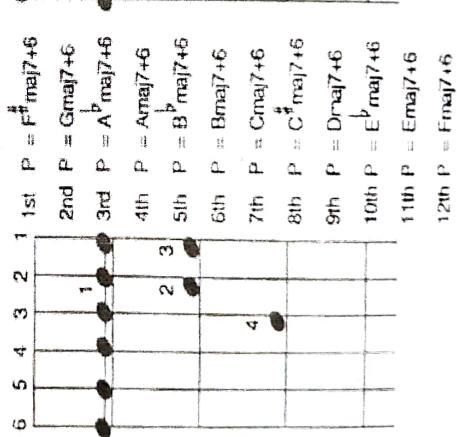
### MINOR 7TH WITH DIMINISHED 5TH CHORDS



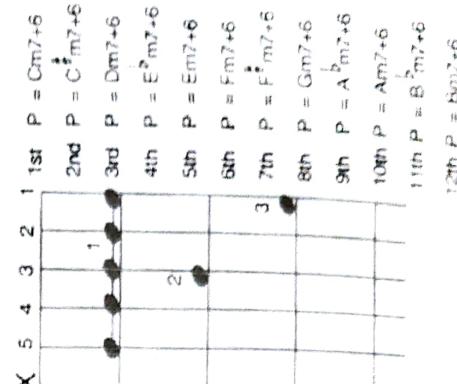
## 7TH WITH 6TH



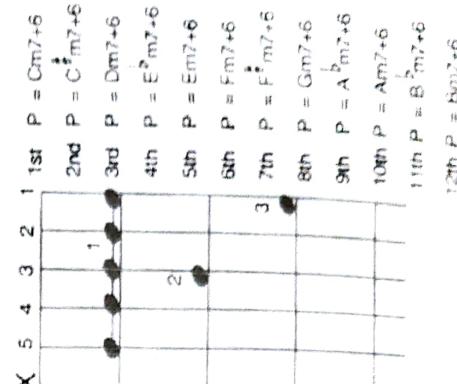
## MAJOR 7TH WITH 6TH

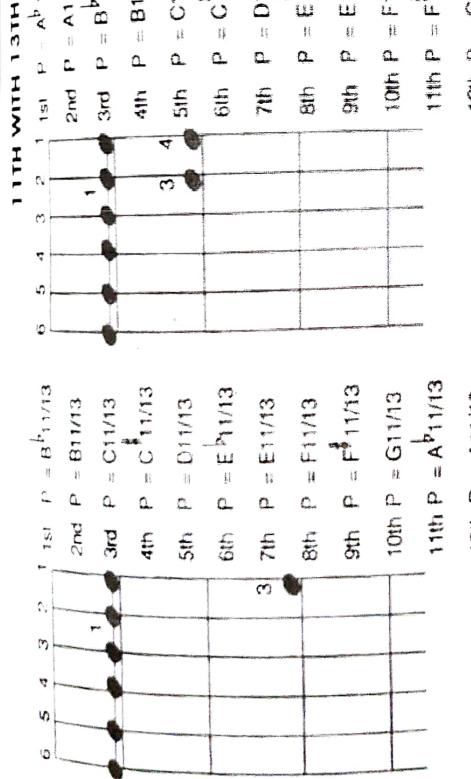


## MAJOR 7TH WITH 6TH



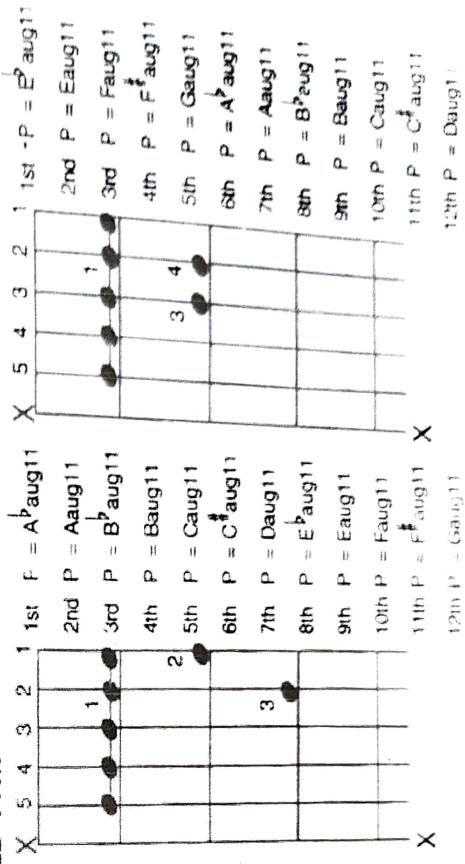
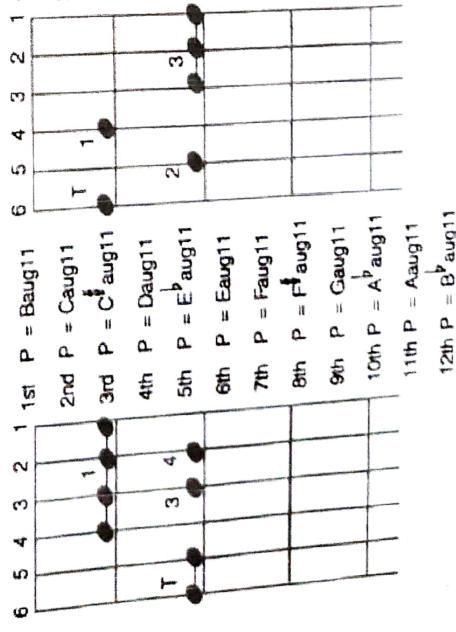
## MINOR 7TH WITH 6TH





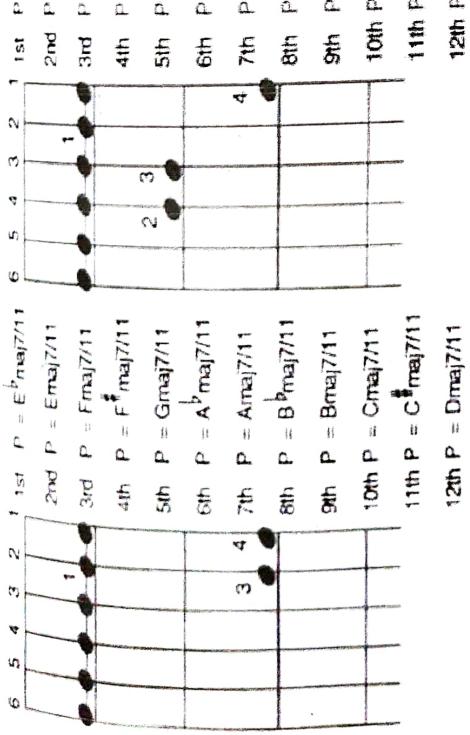
11th P = G11/13  
12th P = E11/13

### AUGMENTED 11TH

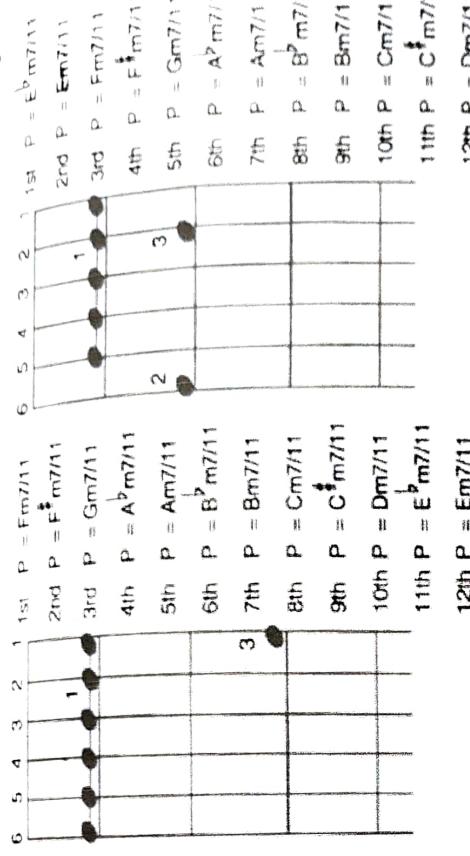


1st P = F<sup>#</sup>11/13  
2nd P = F11/13  
3rd P = G11/13  
4th P = A<sup>b</sup>11/13  
5th P = A11/13  
6th P = B<sup>b</sup>11/13  
7th P = B11/13  
8th P = C11/13  
9th P = C<sup>#</sup>11/13  
10th P = D11/13  
11th P = E<sup>b</sup>11/13  
12th P = E11/13

### MAJOR 7TH WITH 11TH

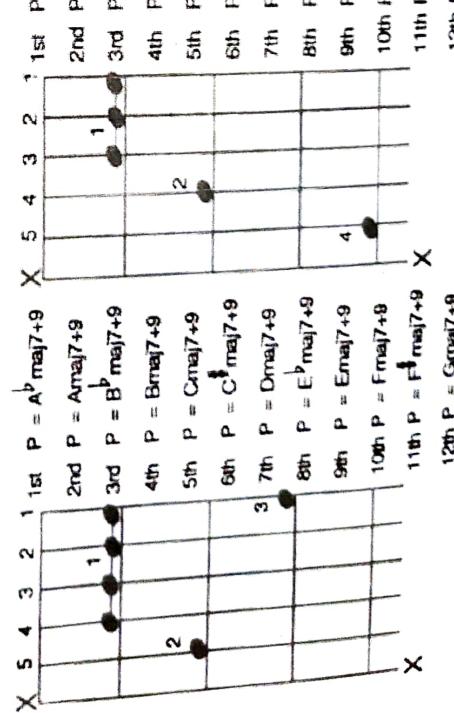


### MINOR 7TH WITH 11TH

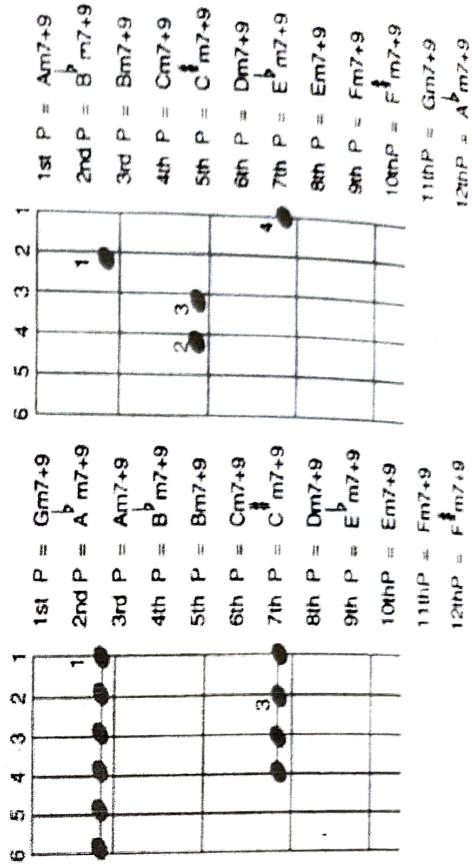


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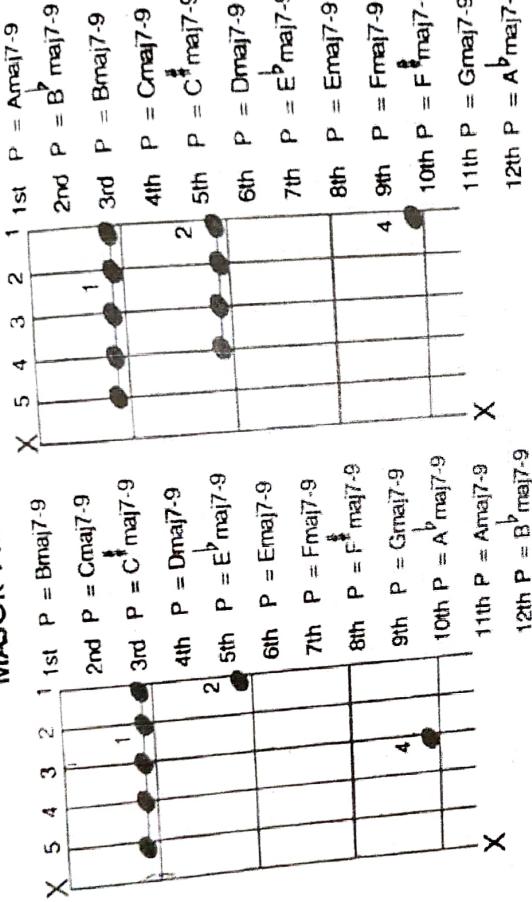
### MAJOR 7TH WITH SHARPENED 9TH



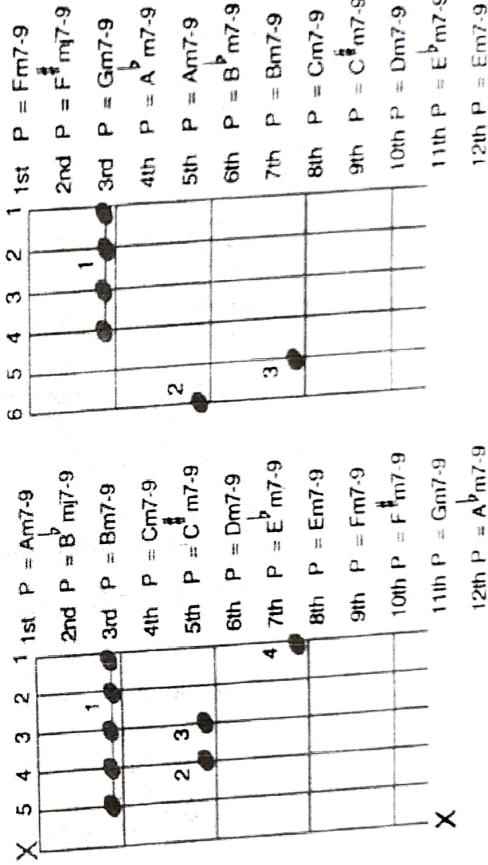
### MINOR 7TH WITH SHARPENED 9TH



## MAJOR 7TH WITH FLATTENED 9TH



## MINOR 7TH WITH FLATTENED 9TH



# BASICS OF SIMILAR CHORDS

## AUGMENTED 5TH CHORDS

These Chords consists of a Root Note, 3rd Note, Augmented 5th Note.

### Example

Key C	=	C Root	D 2nd	E 3rd	F 4th	G 5th	A 6th	B 7th	C 8th
-------	---	-----------	----------	----------	----------	----------	----------	----------	----------

C +	=	C	E	G <sup>#</sup>					
-----	---	---	---	----------------	--	--	--	--	--

Key E	=	E Root	F <sup>#</sup> 2nd	G <sup>#</sup> 3rd	A 4th	B 5th	C <sup>#</sup> 6th	D <sup>#</sup> 7th	E 8th
-------	---	-----------	-----------------------	-----------------------	----------	----------	-----------------------	-----------------------	----------

E +	=	E	G <sup>#</sup>	C					
-----	---	---	----------------	---	--	--	--	--	--

$\therefore C + = E +$ , as the notes are common to both the Chords.

Similarly,  $G^{\#} + (A^{\flat} +)$  is also same as  $C +$  and  $E +$

## DIMINISHED CHORDS

These Chords consists of a Root Note, Minor 3rd, Diminished 5th, 6th.

### Example

Key C	=	C Root	D 2nd	E 3rd	F 4th	G 5th	A 6th	B 7th	C 8th
-------	---	-----------	----------	----------	----------	----------	----------	----------	----------

Co	=	C	E <sup>b</sup>	G <sup>b</sup>	A				
----	---	---	----------------	----------------	---	--	--	--	--

Key E <sup>b</sup>	=	E <sup>b</sup> Root	F 2nd	G 3rd	A <sup>b</sup> 4th	B <sup>b</sup> 5th	C 6th	D 7th	E <sup>b</sup> 8th
--------------------	---	------------------------	----------	----------	-----------------------	-----------------------	----------	----------	-----------------------

E <sup>b</sup> o	=	E <sup>b</sup>	G <sup>b</sup>	A	C				
------------------	---	----------------	----------------	---	---	--	--	--	--

Co = E <sup>b</sup>o, similarly G <sup>b</sup>o and Ao are also same as Co and Eo

## 6TH CHORDS

These Chords consists of a Root 3rd, 5th and 6th

### Example

Key C	=	C Root	D 2nd	E 3rd	F 4th	G 5th	A 6th	B 7th	C 8th
-------	---	-----------	----------	----------	----------	----------	----------	----------	----------

C6	=	C	E	G	A				
----	---	---	---	---	---	--	--	--	--

## MINOR 7TH CHORDS

These Chords have a Root, Minor 3rd, 5th, Minor 7th.  
**Example**

Key A	=	A Root	B 2nd	C 3rd	D 4th	E 5th	F 6th	G 7th	A 8th
Am7	=	A	C	E	G				

∴ C6 and Am7 are same as the notes are common to both the Chords.

## 7TH WITH DIMINISHED 5TH

These Chords are built with Root, 3rd, Diminished 5th, Minor 7th.  
**Example**

Key C	=	C Root	D 2nd	E 3rd	F 4th	G 5th	A 6th	B 7th	C 8th
C7 - 5	=	C	E	G <sup>b</sup>	B <sup>b</sup>				
Key F <sup>#</sup>	=	F <sup>#</sup> Root	G <sup>#</sup> 2nd	A <sup>#</sup> 3rd	B 4th	C <sup>#</sup> 5th	D <sup>#</sup> 6th	E <sup>#</sup> 7th	F <sup>#</sup> 8th
F7 - 5	=	F <sup>#</sup>	A <sup>#</sup>	C	E				
∴ C7 - 5	=	F <sup>#</sup>	7 - 5						

because both the chords have same notes.

## MINOR 7TH WITH SHARPENED 9TH CHORDS

These Chords are built with Root, Minor 3rd, 5th, Minor 7th  
 Sharpened 9th which is similar to Minor 7th Chords.

### Example

Key C	=	C Root	D 2nd	E 3rd	F 4th	G 5th	A 6th	B 7th	C 8th
Cm7+9	=	C	E <sup>b</sup>	G <sup>b</sup>	B <sup>b</sup>	D <sup>#</sup>			

Construction of Minor 7th Chord Is - Root, Minor 3rd, 5th, Minor 7th.

### Example

Key C	=	C Root	D 2nd	E 3rd	F 4th	G 5th	A 6th	B 7th	C 8th
Cm7	=	C	E <sup>b</sup>	G <sup>b</sup>	B <sup>b</sup>				

∴ Cm7 + 9 Is same as Cm7 because Sharpened 9th note and Minor 3rd note is same.



