

I) The important English Phonetic symbols (Part 2)

Phonetic symbols	Examples Word	Approximation Sound
/i:/	see, beat=/ bi:t /	long ee
/ɪ/	sit, fish	short i
/e/	bed, pen	short e
/æ/	cat, man	short a (open mouth)
/ɑ:/	car, father	long ah
/ɒ/	dog, not	short o (British)

Phonetic symbol	Example Word	Approximation Sound
/ɔ:/	talk, law	long aw
/ʊ/	book, put	short u
/u:/	blue, food	long oo
/ʌ/	cup, luck	short uh
/ɜ:/	bird, learn	long er
/ə/	about, sofa	uh (schwa – very short, weak sound)

II) Mathematical Analysis Dictionary (Expanded) with IPA Pronunciation.

This expanded dictionary contains
Analysis terms with IPA-style
pronunciations and Arabic
translations.

English Term	Pronunciation (IPA)	Arabic Translation	Approximation sounds
Absolute value	/'æbsəlu:t 'vælju:z/	القيمة المطلقة	5 syllables: “AB-suh-loot VAL-yoo”
Accumulation point	/ə,kju:mjʊ'leɪʃən pɔɪnt/	نقطة التراكم	6 syllables: “uh-KYOO-myuh-LAY-shun point”
Addition	/ə'dɪʃən/	جمع	3 syllables: “uh-DIH-shun”
Algebra	/'ældʒɪbrə/	الجبر	3 syllables: “AL-jih-bruh”
Antiderivative	/,æntɪ dɪ'rɪvətɪv/	المشتقة العكسية	5 syllables: “AN-tee dih-RIH-vuh-tiv”

English Term	Pronunciation (IPA)	Arabic Translation	Approximation sounds
Approximation	/əˌprɒksɪˈmeɪʃən/	تقريب	5 syllables: “uh-PROK-si-MAY-shun”
Asymptote	/'æsɪmptəʊt/	خط التقارب	3 syllables: “AS-im-toht”
Average	/'ævərɪdʒ/	متوسط	3 syllables: “AV-er-ij”
Axis	/'æksɪs/	محور	2 syllables: “AK-sis”
Boundary	/'baʊndəri/	حدّ	3 syllables: “BOWN-duh-ree”
Chain rule	/tʃeɪn ru:l/	قاعدة السلسلة	2 syllables: “CHAYN rool”
Coefficient	/'kɔʊrɪfɪʃənt/	معامل	4 syllables: “KOH-i-FIH-shunt”

English Term	Pronunciation (IPA)	Arabic Translation
Continuous function	/kən'tɪnjuəs 'fʌŋkʃən/	دالة مستمرة
Convergence	/kən'vɜːrdʒəns/	التقارب
Critical point	/'krɪtɪkəl pɔɪnt/	نقطة حرجة
Derivative	/dɪ'rɪvətɪv/	مشتقة
Differentiation	/,dɪfə'renʃi'eɪʃən/	التفاضل
Discontinuity	/,dɪskɒntɪ'njuːɪti/	انقطاع
Domain	/doʊ'meɪn/	المجال
Epsilon	/'ɛpsɪlɒn/	إبسيلون
Edge	/ɛdʒ/	حافة

English Term	Pronunciation (IPA)	Arabic Translation	Approximation sounds
Function	/ˈfʌŋkʃən/	دالة	2 syllables: “FUNK-shun”
Graph	/græf/	منحنى	1 syllables: “GRAF”
Hypothesis	/haɪˈpʊθəsis/	فرضية	4 syllables: “hy-POTH-uh-sis”
Identity	/aɪˈdɛntɪti/	هوية	4 syllables: “eye-DEN-ti-tee”
Image	/ˈɪmɪdʒ/	صورة	2 syllables: “IM-ij”
Inequality	/ˌɪnɪˈkwɒləti/	متباينة	5 syllable: “in-ih-KWOL-uh-tee”
Inflection point	/ɪnˈflɛkʃən pɔɪnt/	نقطة انقلاب	“in-FLEK-shun point”

English Term	Pronunciation (IPA)	Arabic Translation
Integral	Integral	Integral
	/ˈɪntɪgrəl/	تكامل
implies	/ɪmˈplaɪz/	يستلزم
Maximum	/ˈmæksɪməm/	أقصى
Mean value	/mi:n ˈvælju:/	القيمة المتوسطة
Minimum	/ˈmɪnɪməm/	أدنى
Monotonic function	/ˌmɒnəˈtɒnɪk ˈfʌŋkʃən/	دالة رتيبة
Open interval	/ˈoʊpən ˈɪntərvəl/	فترة مفتوحة
Rational function	/ˈræʃənəl ˈfʌŋkʃən/	دالة نسبية