

Constellation Asterisms

Information given below can be used to plot the asterisms (lines joining stars to create the familiar outlines). Polyline coordinates are given as a list of stars to join separated by dashes. Where known the right ascension and declination of the stars is given. **This document is not complete.**

Zodiac Constellations

Aries (the ram) - ARI

41 - α - β - γ
 41
 α 2h 7.2m 23.28d
 β 1h 54.7m 20.48d
 γ

Taurus (the bull) - TAU

ζ - α - θ - γ - δ - ϵ - β
 ζ - 5h 37.6m 21.08d
 α - 4h 35.9m 16.30d **Aldeberan**
 θ - 4h 28.6m 15.52d
 γ -
 δ -
 ϵ - 4h 28.7m 19.10d
 β - 5h 26.4m 28.36d Alnath

Gemini (the twins) GEM

ξ - γ - ζ - δ - β - α - ϵ - μ - η
 ξ - 6h 45.3m 12.53d Alzirr
 γ -
 ζ -
 δ - 7h 20.1m 21.59d Wasat
 β - 7h 45.4 28.02d **Pollux**
 α - 7h 34.6m 31.54d **Castor**
 ϵ - 6h 44.0m 25.08d Mebsuta
 μ - 6h 22.9m 22.31d
 η - 6h 14.8m 22.31d Propus

Cancer (the crab) CNC

ι - γ - δ - α
 ι -
 γ -
 δ -
 α
 δ - β
 δ -
 β -

Leo (the lion) LEO $\varepsilon - \mu - \zeta - \gamma - \eta - \alpha - \theta - \beta - \delta - \gamma$ $\varepsilon - 9\text{h } 45.9\text{m} \quad 23.46\text{d}$ $\mu -$ $\zeta - 10\text{h } 16.7\text{m} \quad 23.25\text{d} \quad \text{Adhafera}$ $\gamma -$ $\eta - 10\text{h } 7.4\text{m} \quad 16.46\text{d}$ $\alpha - 10\text{h } 8.4\text{m} \quad 11.58\text{d}$ **Regulus** $\theta - 11\text{h } 14.2\text{m} \quad 15.26\text{d}$

Chort

 $\beta - 11\text{h } 49.1\text{m} \quad 14.35\text{d}$

Denebola

 $\delta - 11\text{h } 14.2\text{m} \quad 20.32\text{d}$

Zosma

 $\gamma - 10\text{h } 20.0\text{m} \quad 19.51\text{d}$

Algieba

Virgo (the virgin) VIR $109 - \tau - \zeta - \alpha \text{ (Spica)} - \kappa - \iota - \mu$ $109 -$ $\tau -$ $\zeta - 13\text{h } 34.8\text{m} \quad -0.36\text{d} \quad \text{Heze}$ $\alpha - 13\text{h } 25.2\text{m} \quad -11.09\text{d} \quad \text{Spica}$ $\kappa -$ $\iota -$ $\mu -$ $\zeta - \delta - \varepsilon$ $\zeta - 13\text{h } 34.8\text{m} \quad -0.36\text{d} \quad \text{Heze}$ $\delta -$ $\varepsilon - 13\text{h } 02.3\text{m} \quad 10.58\text{d}$ $\alpha - \theta - \gamma - \delta$ $\alpha - 13\text{h } 25.2\text{m} \quad - \quad 11.09\text{d} \quad \text{Spica}$ $\theta -$ $\gamma - 12\text{h } 41.6\text{m} \quad -1.27\text{d} \quad \text{Parrima}$ $\delta -$ $\gamma - \eta - \beta$ $\gamma - 12\text{h } 41.6\text{m} \quad -1.27\text{d} \quad \text{Parrima}$ $\eta -$ $\beta -$

Libra (the scales) LIB

$\theta - \eta - \gamma - \beta - \alpha - \sigma - \upsilon - \tau$

$\theta -$

$\eta -$

$\gamma -$

$\beta - 15^{\text{h}} 17.0^{\text{m}} -9.23^{\text{d}}$

$\alpha - 14^{\text{h}} 50.9^{\text{m}} -16.02^{\text{d}}$ Zuben Elgenubi

$\sigma - 15^{\text{h}} 3.9^{\text{m}} -25.16^{\text{d}}$ Brachium

$\upsilon -$

τ

$\beta - \sigma$

$\beta - 15^{\text{h}} 17.0^{\text{m}} -9.23^{\text{d}}$

$\sigma - 15^{\text{h}} 3.9^{\text{m}} -25.16^{\text{d}}$ Brachium

Scorpius (the scorpion) SCO

$\upsilon - \lambda - \kappa - \iota - \theta - \eta - \zeta - \mu - \epsilon - \tau - \alpha - \sigma - \delta - \beta - \nu$

$\upsilon - 17^{\text{h}} 30.8 -37.17^{\text{d}}$

$\lambda - 17^{\text{h}} 33.6^{\text{m}} -37.06^{\text{d}}$ Shaula

$\kappa - 17^{\text{h}} 42.5^{\text{m}} -39.02^{\text{d}}$

$\iota - 17^{\text{h}} 47.6^{\text{m}} -40.07^{\text{d}}$

$\theta - 17^{\text{h}} 37.3^{\text{m}} -43.00^{\text{d}}$ Sargas

$\eta - 17^{\text{h}} 12.1^{\text{m}} -43.15^{\text{d}}$

$\zeta -$

$\mu - 16^{\text{h}} 51.9^{\text{m}} -38.03^{\text{d}}$

$\epsilon - 16^{\text{h}} 50.2^{\text{m}} -34.17^{\text{d}}$

$\tau - 16^{\text{h}} 35.9^{\text{m}} -28.13^{\text{d}}$

$\alpha - 16^{\text{h}} 29.5^{\text{m}} -26.26^{\text{d}}$ Antares

$\sigma - 16^{\text{h}} 21.1^{\text{m}} -25.35^{\text{d}}$

$\delta - 16^{\text{h}} 0.3^{\text{m}} -22.38^{\text{d}}$

$\beta - 16^{\text{h}} 05.4 -19.48^{\text{d}}$

$\nu -$

$\delta - \pi - \rho$

$\delta - 16^{\text{h}} 0.3^{\text{m}} -22.38^{\text{d}}$

$\pi -$

$\rho -$

Sagittarius (the archer)) SGR $\tau - \sigma - \varphi - \zeta - \tau$ $\tau - 19^{\text{h}} 07.0^{\text{m}} \quad -27.40^{\text{d}}$ $\sigma - 18^{\text{h}} 55.3^{\text{m}} \quad -26.18^{\text{d}} \quad \text{Nunki}$ $\varphi -$ $\zeta - 19^{\text{h}} 02.6^{\text{m}} \quad -29.53^{\text{d}} \quad \text{Ascella}$ $\tau -$ $\varphi - \lambda - \delta - \varepsilon - \zeta$ $\varphi -$ $\lambda - 18^{\text{h}} 28.0^{\text{m}} \quad -25.26^{\text{d}}$ $\delta - 18^{\text{h}} 21.0^{\text{m}} \quad -29.50^{\text{d}}$ $\varepsilon - 18^{\text{h}} 24.2^{\text{m}} \quad -34.23^{\text{d}}$ $\zeta - 19^{\text{h}} 02.6^{\text{m}} \quad -29.53^{\text{d}} \quad \text{Ascella}$ $\delta - \gamma - \varepsilon$ $\delta - 18^{\text{h}} 21.0^{\text{m}} \quad -29.50^{\text{d}}$ $\gamma - 18^{\text{h}} 5.8^{\text{m}} \quad -30.25^{\text{d}}$ $\varepsilon - 18^{\text{h}} 24.2^{\text{m}} \quad -34.23^{\text{d}}$ **Capricornus (the sea goat) CAP** $\beta - \psi - \omega - \zeta - \varepsilon - \delta - \gamma - \iota - \theta - \beta$ $\beta - 20^{\text{h}} 21.0^{\text{m}} \quad -14.47^{\text{d}} \quad \text{Dabih}$ $\psi -$ $\omega -$ $\zeta -$ $\varepsilon -$ $\delta -$ $\gamma -$ $\iota -$ $\theta -$ $\beta - 20^{\text{h}} 21.0^{\text{m}} \quad -14.47^{\text{d}} \quad \text{Dabih}$

Aquarius (the water bearer) AQR

$\varepsilon - \mu - \beta - \alpha - \theta - \iota$

$\varepsilon -$

$\mu -$

$\beta - 21^{\text{h}} 31.6$

-5.35d

Sadalsuud

$\alpha - 22^{\text{h}} 5.8^{\text{m}}$

-0.20d

Sadalmelik

$\theta -$

$\iota -$

$\alpha - \gamma - \zeta - \eta - \varphi - \lambda - \tau - \delta$

$\alpha - 22^{\text{h}} 5.8^{\text{m}}$

-0.20d

Sadalmelik

$\gamma -$

$\zeta -$

$\eta -$

$\varphi -$

$\lambda -$

$\tau -$

$\delta -$

Pices (the fish) PSC

$\tau - \upsilon - \varphi - \eta - \omicron - \alpha - \nu - \mu - \varepsilon - \delta - \omega - \iota - \theta - \gamma - \kappa - \lambda - \iota$

$\tau -$

$\upsilon -$

$\varphi -$

$\eta -$

$\omicron -$

$\alpha -$

$\nu -$

$\mu -$

$\varepsilon -$

$\delta -$

$\omega -$

$\iota -$

$\theta -$

$\gamma -$

$\kappa -$

$\lambda -$

$\iota -$

Circumpolar Constellations

Ursa Minor (the little dipper or little bear) UMi

$\alpha - \delta - \epsilon - \zeta - \beta - \gamma - \eta - \xi$
 $\alpha - 2\text{h } 31.1\text{m} \quad 89.15\text{d} \quad \text{Polaris}$
 $\delta -$
 $\epsilon -$
 $\zeta -$
 $\beta - 14\text{h } 50.7\text{m} \quad 74.10\text{d} \quad \text{Kakab}$
 $\gamma - 15\text{h } 20.7\text{m} \quad 71.50\text{d} \quad \text{Pherkad}$
 $\eta -$
 $\xi -$

Ursa Major (the big dipper or big bear) UMa

$\eta - \zeta - \epsilon - \delta - \gamma - \beta - \alpha - \delta$
 $\eta - 13\text{h } 47.5\text{m} \quad 49.19\text{d} \quad \text{Alkaid}$
 $\zeta - 13\text{h } 23.9 \quad 54.58 \quad \text{Mizar}$
 $\epsilon - 12\text{h } 54.1\text{m} \quad 55.58\text{d} \quad \text{Alioth}$
 $\delta -$
 $\gamma - 11\text{h } 53.9 \quad 53.42\text{d} \quad \text{Phad}$
 $\beta - 11\text{h } 1.8\text{m} \quad 56.23\text{d} \quad \text{Merak}$
 $\alpha -$
 $\delta - 12\text{h } 15.5\text{m} \quad 57.02\text{d} \quad \text{Megrez}$

Draco (the dragon) DRA

$\lambda - \kappa - \alpha - \iota - \theta - \eta - \zeta - \psi - \chi - \tau - \epsilon - \delta - \xi - \nu - \beta - \gamma - \xi$
 $\lambda -$
 $\kappa -$
 $\alpha -$
 $\iota -$
 $\theta -$
 $\eta -$
 $\zeta - 17\text{h } 8.8\text{m} \quad 65.43\text{d} \quad \text{Aldhibah}$
 $\psi -$
 $\chi -$
 $\tau -$
 $\epsilon -$
 $\delta - 19\text{h } 12.6\text{m} \quad 67.40\text{d}$
 $\xi -$
 $\nu -$
 $\beta - 17\text{h } 30.4\text{m} \quad 52.19\text{d} \quad \text{Restaban}$
 $\gamma - 17\text{h } 56.6\text{m} \quad 51.29\text{d} \quad \text{Etamin}$
 $\xi -$

Cepheus (a king of Ethiopia) CEP

$\alpha - \beta - \gamma - \iota - \zeta - \alpha$
 $\alpha -$
 $\beta -$
 $\gamma -$
 $\iota -$
 $\zeta -$
 $\alpha -$

Cassiopeia CAS

$\beta -$	$\alpha -$	$\gamma -$	$\delta -$	ε
$\beta -$	0h 9.2m	59.09d	Caph	
$\alpha -$	0h 40.5m	56.32d	Schedar	
$\gamma -$	0h 56.7m	60.43d		
$\delta -$	1h 25.8m	60.14d	Ruchbah	
$\varepsilon -$	1h 54.4m	63.40d	Segin	

Other Popular Constellations

Andromeda AND

51 - μ - π - α - δ - β - γ

51 -

μ -

π -

α - 0h 8.4m

29.05d

Alpheratz

δ - 0h 39.4m

30.51d

β - 1h 9.7m

35.37d

Mirach

γ - 2h 4.0m

42.20d

Almaak

Auriga (the charioteer) AUR

Taurus β - θ - β - α - ε - η - ι - Taurus β

Taurus β -

θ -

β -

α

Capella

ε -

η -

ι -

Taurus β -

Bootes (the herdsman) BOO

υ - τ - η - α - ρ - γ - β - δ - ε - α

υ -

τ -

η -

α

Arcturus

ρ -

γ -

β -

δ -

ε -

α

Arcturus

Centaurus (the centaur) CEN

$\alpha - \varepsilon - \beta$

$\alpha -$

$\varepsilon -$

$\beta -$

$\varepsilon - \zeta - \mu - \nu - \eta - \kappa$

$\varepsilon -$

$\zeta -$

$\mu -$

$\nu -$

$\eta -$

$\kappa -$

$\nu - \theta$

$\nu -$

$\theta -$

$\nu - \delta - \iota$

$\nu -$

$\delta -$

$\iota -$

$\varepsilon - \gamma - \sigma - \delta - \rho - \pi - 3766$

$\varepsilon -$

$\gamma -$

$\sigma -$

$\delta -$

$\rho -$

$\pi -$

3766 -

Cygnus (the swan or northern cross) CYG

α (Deneb) - γ - η - β

Alpha (Deneb) - Gamma - Eta - Beta

α

Deneb

$\gamma -$

$\eta -$

$\beta -$

$\varepsilon - \gamma - \delta$

$\varepsilon -$

$\gamma -$

$\delta -$

Hercules HER

$\alpha - \beta - \gamma$
 $\alpha -$
 $\beta -$
 $\gamma -$

$\beta - \zeta - \varepsilon - \delta - \lambda - \mu - \xi - \omicron$
 $\beta -$
 $\zeta -$
 $\varepsilon -$
 $\delta -$
 $\lambda -$
 $\mu -$
 $\xi -$
 $\omicron -$

$\varepsilon - \pi - \rho - \theta - \iota$
 $\varepsilon -$
 $\pi -$
 $\rho -$
 $\theta -$
 $\iota -$

$\pi - \eta - \sigma - \tau - \varphi$
 $\pi -$
 $\eta -$
 $\sigma -$
 $\tau -$
 $\varphi -$

$\eta - \zeta$
 $\eta -$
 $\zeta -$

Hydra (the water snake) HYA (not hyi)

$\pi - \gamma - \beta - \xi - \nu - \mu - \lambda - \nu 1 - \alpha - \iota - \theta - \zeta - \varepsilon - \delta - \sigma - \eta - \zeta$

$\pi -$

$\gamma -$

$\beta -$

$\xi -$

$\nu -$

$\mu -$

$\lambda -$

$\nu 1 -$

$\alpha -$

$\iota -$

$\theta -$

$\zeta -$

$\varepsilon -$

$\delta -$

$\sigma -$

$\eta -$

$\zeta -$

Lyra (the lyre) LYR

$\alpha - \zeta - \delta - \gamma - \beta - \zeta$

α

$\zeta -$

$\delta -$

$\gamma -$

$\beta -$

$\zeta -$

Vega

Orion (the hunter) ORI

$\chi^2 - \xi - \mu - \alpha - \lambda - \gamma - \delta - \beta - \kappa - \zeta - \alpha$

$\chi^2 -$

$\xi -$

$\mu -$

α

Betelgeuse

$\lambda -$

$\gamma -$

$\delta -$

β

Rigel

$\kappa -$

$\zeta -$

α

Betelgeuse

$\gamma - \pi^3$

$\gamma -$

π^3

$\pi^1 - \pi^2 - \pi^3 - \pi^4 - \pi^5 - \pi^6$

$\pi^1 -$

$\pi^2 -$

$\pi^3 -$

$\pi^4 -$

$\pi^5 -$

π^6

Pegasus (the winged horse) PEG

Andromeda $\alpha - \beta - \alpha - \gamma -$ Andromeda α

Andromeda $\alpha -$ 0h 8.4m 29.05d

$\beta -$

$\alpha -$

$\gamma -$ 0h 13.3m 15.11d

Algenib

Andromeda $\alpha -$ 0h 8.4m 29.05d

Perseus PER $\varphi - \eta - \gamma - \alpha - \delta - \varepsilon - \xi - \zeta - \omicron$ $\varphi -$ $\eta -$ $\gamma - \quad 3\text{h } 4.7\text{m} \quad 53.30\text{d}$ $\alpha - \quad 3\text{h } 24.3\text{m} \quad 49.51\text{d}$

Mirplak

 $\delta - \quad 3\text{h } 42.9\text{m} \quad 47.47\text{d}$ $\varepsilon -$ $\xi -$ $\zeta -$ $\omicron -$ $\alpha - \kappa - \beta - \rho$ $\alpha - \quad 3\text{h } 24.3\text{m} \quad 49.51\text{d}$

Mirplak

 $\kappa -$ $\beta - \quad 3\text{h } 8.2\text{m} \quad 40.57\text{d} \quad \text{Algol}$ $\rho - \quad 3\text{h } 5.2\text{m} \quad 38.50\text{d}$ **Triangulum TRI** $\alpha - \beta - \gamma$ $\alpha - \quad 1\text{h } 53.1\text{m} \quad 29.35\text{d}$ $\beta - \quad 2\text{h } 9.5\text{m} \quad 34.59\text{d}$ $\gamma -$ **The Greek Alphabet**

α = alpha (a)	ι = iota (i)	ρ = rho (r)
β = beta (b)	κ = kappa (k)	σ = sigma (s)
γ = gamma (g)	λ = lambda (l)	τ = tau (t)
δ = delta (d)	μ = mu (m)	υ = upsilon (u)
ε = epsilon (e)	ν = nu (n)	φ = phi (j) or ϕ = phi (f)
η = eta (h)	ξ = xi (x)	χ = chi (c)
ζ = zeta (z)	\omicron = omicron (o)	ψ = psi (y)
θ = theta (q)	π = pi (p)	ω = omega (w)