ry taking a color tour of the nighttime sky



EXAMPLE: RANDALE: RANDA



sky, and the latter after sunset. Mercury, Mars and Jupiter will be too close to the sun to be seen be too close to the sun to be scon easily. There is one thing upon which we can depend every October: when it comes to the colors of our autumn follage, this month is never a disappointment. Just as there are a variety of colors in the leaves, there is a great variety of color in the sky, and this month is a great time to take a celestial col-or tour.

in the apparent distance between Venus and Regulus noavly qua-drupling. (An extremely rare event occurred more than a gener-ation ago when Venus occulted (covered) Regulus on July 7, 1399.) This is a good place to begin our color tour of the sky. The best way to compare the color differ-ences between Venus and Re-gulus will be with binceulars; ad-just the binceulars; ad-just the binceulars; ad-light you of focus. This will spread out the light and make their color more apparent. Venus is bright because its thick atmos-phore reflects the light of the sun, so that planet's color appears much the same as sunlight. Regulus, however, is a star, so it produces its own light the color of the light tells us something

about the star: a blue-white star, like Regulus, is young (as far as stellar ages go) and very hot; the surface tomperature of Regulus is about 13,000 degrees Kelvin, The gulus is 160 times more luminous than the sun and five times larg-er, but it's only the 21st brightest star in the sky. It doesn't look very impressive because is about 55 light-years away from us. (The light we see this morning left Re-gulus in 1903.) The et he southwest around 64G a.m. on Oct. 5 and find the moon. It will be located between the Pielades (PLEE a dees) star clust-ter and Aldebaran (al DEB a ran). The Pielades, to the right of the moon, looks like a tiny dipper and represents the "shoulder" of about the star: a blue-like Regulus, is youn

RAVEL

Taurus the bull. Aldebaran, lo-cated to the left of the moon, is the bull's "eye."

the bull's "eye." Aldebaran is a star like Re-gulus, but that's where the simi-larity ends. Even without using out-of-focus binoculars, Alde-baran's arter ancient and fairly cool (by stellar standards). Alde-baran's auriace temperature is around 3,400 degrees Kelvin, That's much cooler than the sun, but Aldebaran is still 125 times more luminous. The brightness is due to Aldebaran's size; it is a gi-ant star, 40 times the diameter of the sun. Aldebaran, the 13 bright-est star, is about 68 light-years sway.

The moon will drift through the

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stars of Taurus and, on the morn-ing of the 7th, he located above the "club" of Orion (oh RYE an) be hunter. Drop a line from the you'll go eight past another bright orange red star. The star is named Betelgeuse ("Bectle-juice"), and its name means "amplt of the giant," a rather un-romantic name for one of the larg-rest stars in the sky (The name refers to Orion's right arm p1... Betelgeuse is the 11th brightest fight-years away. It is 14,000 light-years of this superfinat star in the sky and is around 520 light-years of this superfinat star would extend as far as the or-bit of Jupiteri)



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