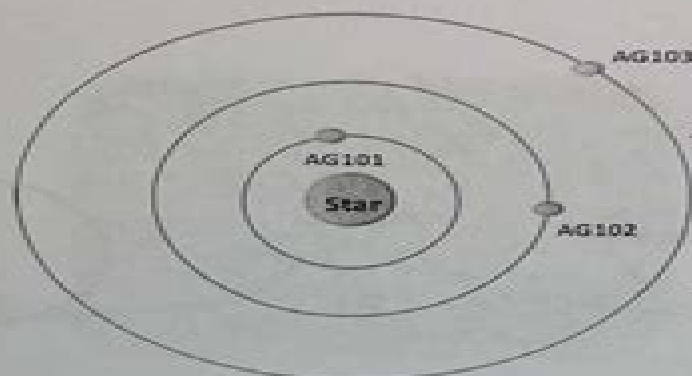




AG103:

$$2 \times 10^{23} \text{ N} = \frac{(6.67 \times 10^{-11}) (7 \times 10^{30}) (m_1)}{(3.2 \times 10^{12})^2}$$

$$m_1 = 4.4 \times 10^{27} \text{ kg}$$

$$7 = \frac{(6.67 \times 10^{-11}) (4.4 \times 10^{27})}{r^2}$$

$$r = 2.2 \times 10^8 \text{ m}$$

1. A solar system in the Andromeda galaxy has three observable planets that orbit around a central star. A group of scientists have been able to collect minimal measurements about the solar system. Use your knowledge from Unit 4 to fill in the missing information from the table below.

Object	F _g with Star (N)	Distance from star (center-center) (m)	Mass (kg)	Radius (m)	Gravitational constant (m/s ²)	Orbital Speed (m/s)
Star	-----	-----	7×10^{30}	5×10^8	-----	-----
AG101	7×10^{20}	1.4×10^{10}	3×10^{20}	63261	5	1.8×10^5
AG102	1.3×10^{20}	4.7×10^{10}	6×10^{20}	1×10^5	4	1×10^3
AG103	2×10^{23}	3.2×10^{12}	4.4×10^{27}	2.2×10^8	7	-----

AG101:

$$F_g = \frac{6.67 \times 10^{-11} \cdot 3 \times 10^{20} \cdot 7 \times 10^{30}}{(1.4 \times 10^{10})^2} = 7 \times 10^{20} \text{ N}$$

$$5 = \frac{6.67 \times 10^{-11} \cdot 3 \times 10^{20}}{r_{AG101}^2}$$

$$r_{AG101} = 63261 \text{ m}$$

$$7 \times 10^{20} = \frac{(3 \times 10^{20}) v^2}{(1.4 \times 10^{10})^2}$$

$$v = 1.8 \times 10^5 \text{ m/s}$$

AG102:

$$F_g = F_c$$

$$\frac{(6.67 \times 10^{-11}) (6 \times 10^{20}) (7 \times 10^{30})}{r^2} = \frac{(6 \times 10^{20}) (1 \times 10^5)^2}{r}$$

$$r = 4.7 \times 10^{10} \text{ m}$$

$$F_g = \frac{(6.67 \times 10^{-11}) (6 \times 10^{20}) (7 \times 10^{30})}{(4.7 \times 10^{10})^2} = 1.3 \times 10^{20} \text{ N}$$

$$g = \frac{(6.67 \times 10^{-11}) (6 \times 10^{20})}{(1 \times 10^5)^2} = 4 \text{ m/s}^2$$

Unit Iv 1 Answers

Annette Capel, Wendy Sharp



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