Draw a Mars Disk with Surface Feature Shading

Original tasks 1, 2 / independent work

Task 1

A circle has a measured diameter of 100 mm. You choose a cap depth of 10 mm and a limb band of 5 mm. State the radius and confirm each proportion by division.

Task 2

A disk of diameter 80 mm has a terminator drawn as a hard straight line on the left side. Describe two changes that would make the terminator read as a soft zone and explain how to check the result.

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Original tasks 3, 4 / independent work

Task 3

You have placed three dark patches but the disk looks flat. Using only the three-tone key, describe one adjustment and one check.

Task 4

A circle of diameter 70 mm has a cap depth of 7 mm. A classmate says the cap is too deep because it is one fifth of the radius. Check the arithmetic and state whether the claim is correct.