Bicycle Rider Drawing: Frame Geometry and Posture

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Using hypothetical values, draw a side-view rider with wheelbase 100 units, wheel radius 30 units, saddle height 50 units above bottom bracket, and hip 5 units above saddle. Check the wheel edge gap and hip height.

Answer: Wheel diameter is 60 units, so edge gap is 100 minus 60 equals 40 units. Hip height is 50 plus 5 equals 55 units. Place wheel centers 100 units apart on the baseline, draw equal 30-unit radius wheels, set saddle 50 units above bottom bracket, and place hip 5 units above saddle. Draw torso to handlebars and legs to pedals, then confirm contacts.