Draw Tree Roots: Spreading Lines and Soil Line

Original task 1 / independent drawing and calculation

Task 1

On a 15 cm wide paper, place a soil line 5 cm from the bottom. Draw a trunk base at the center. Choose a total spread width of 10 cm. Draw four main roots. Check that at least two main roots extend beyond 5 cm from center. Describe your root tip distances.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Draw a soil line and trunk base on paper 18 cm wide. Use a total spread width of 14 cm. Draw three main roots with tip distances 6 cm left, 7 cm right, and 4 cm left. Draw two secondary roots. Does the drawing meet the spread check? Explain.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

On paper 22 cm wide, draw a soil line 8 cm from the bottom. Draw a trunk base slightly left of center. Choose a total spread width of 16 cm. Draw five main roots. At least two main roots must extend beyond 8 cm from center. Propose tip distances that pass the check and label all parts.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Draw Tree Roots: Spreading Lines and Soil Line

Original task 4 / independent drawing and calculation

Task 4

Draw a root system on paper 12 cm wide. Place the soil line 4 cm from the bottom. Choose a total spread width of 8 cm. Draw three main roots and one secondary root. Check that at least two main roots extend beyond 4 cm from center. If your drawing fails, state one adjustment and redraw the check.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.