Draw an Explosion Burst: Radiating Shock Lines and Debris

Original task 1 / independent drawing and calculation

Task 1

Draw a burst with 6 spikes and 8 shock lines on a 10 cm by 10 cm area. Use the convention that shock lines point away from the center. Place debris in two zones: inner and outer. State your center location and spike lengths.

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 burst with 10 spikes and 12 shock lines. Use dashed shock lines that become sparser outward. Place debris in three zones. Describe how you vary dash spacing and debris size.

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

Draw a burst where the longest spike is 4 cm and the shortest is 2 cm. Use 9 shock lines. Place debris so that no mark touches a shock line. Explain your placement rule.

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 4 / independent drawing and calculation

Task 4

Draw a burst with 7 spikes and 10 shock lines. Use a convention where shock lines are solid near the burst and become dashed farther out. Place debris in three zones and state the counts. Then list two valid alternative choices you could have made.

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.