

UNIT 6: IRRATIONAL MATH

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Objectives: I can create squares (tilted) on grid paper.

Creating Squares

Notes:

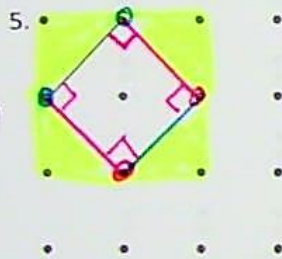
Measure each of the following segments to the nearest tenth of a cm.

Segment	Measure
1. _____	<u>6.0</u> cm
2. _____	<u>8.8</u> cm
3. _____	<u>1.9</u> cm
4. _____	<u>4.3</u> cm

State the attributes of a square: 4 equal sides, 4 Right (90°) angles

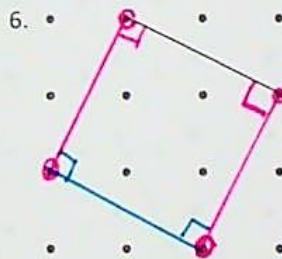
① "characteristics"

State the slope and the perpendicular slope for each line segment. Draw a square using the segment as one side length.



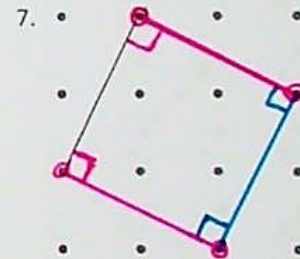
Slope: 1 $\frac{1}{1}$

⊥ Slope: -1 $-\frac{1}{1}$



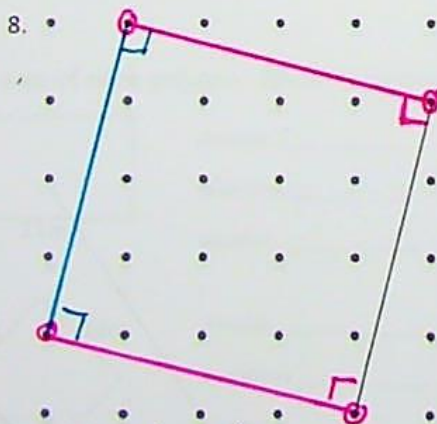
Slope: $-\frac{1}{2}$

⊥ Slope: 2 $-\frac{2}{-1}$



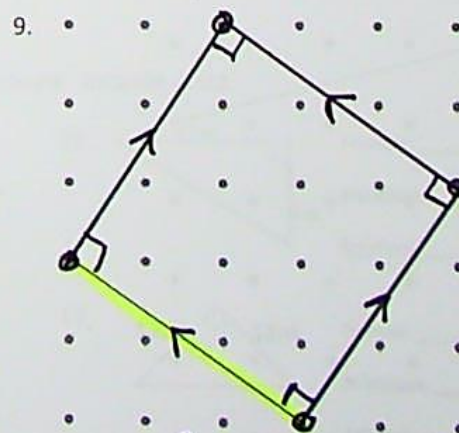
Slope: 2 $\frac{2}{1}$

⊥ Slope: $-\frac{1}{2}$ $-\frac{1}{2}$



Slope: 4 $\frac{4}{1}$

⊥ Slope: $-\frac{1}{4}$ $-\frac{1}{4}$



Slope: $-\frac{2}{3}$

⊥ Slope: $\frac{3}{2}$ up. right