

CP Geometry Unit 3 Jeopardy! Key

Terms / Theorems

- 1.) Alternate Exterior
- 2.) A quadrilateral with exactly one pair of parallel sides.
- 3.) A polygon with all of its angles congruent and all of its sides congruent.
- 4.) Given an exterior angle involving a triangle, these are the two nonadjacent interior angles.
- 5.) A segment connecting points on the polygon leaves the polygon.
- 6.) Undefined.

Parallel?

- 3.) None
- 4.) $x = 4.5$, $y = 3$
L1 \parallel L2
- 5.) $x = 1.5$
 $y = 3.5$
L1 \parallel L2
- 6.) $x = 8/3 = 2.666666667$
 $y = 7$
L1 \parallel L2

Transformation Pictures

- 4.) $T(x,y) = (x-1, -y+6)$
- 5.) $T(x,y) = (x+1, -y+1)$
- 6.) $T(x,y) = (-x-5, -y)$

Miscellaneous!

- 3.) $A = 56$; $B = 72$; $C = 25$; $D = 83$; $E = 27$
- 4.) $x = 39$ (Use Parallel Postulate)
- 5.) $x = 90$; $y = 30$
- 6.) $x = 24$

Interior Angles

- 1.) 310860°
- 2.) 4
- 3.) 280
- 4.) $x = 78$; $y = 102$; $z = 48$
- 5.) 0.304878.....
- 6.) 900°

Exterior Angles

- 2.) 360°
- 3.) 0.5°
- 4.) 3 sides
- 5.) No Such Polygon
- 6.) 75

Figures in the Coordinate Plane

- 2.) $(-3, 5.5)$, $m = 5/4$, $d = 6.403$
- 3.) Rhombus (SHOW WORK)
- 4.) Square (SHOW WORK)
- 5.) $(4,3)$, $(-2,1)$, $(6,-1)$
- 6.) Square (SHOW WORK)

Transformation Rules

- 1.) $T(x,y) = (x+18, y-3)$
- 2.) $T(x,y) = (x+4, y+5)$
- 3.) $T(x,y) = (x, -y + 12)$
- 4.) Reflect across y axis,
Right 3, Down 12
- 5.) Reflect across x axis,
Right 12, Down 19
- 6.) Rotate 180° around origin,
Right 15, Down 22

Parallel Lines

- 2.) $x = 1.6$
- 3.) $x = 36$
 $y = -6$
- 4.) $A = 32$
 $B = 6$
 $C = 174$
 $D = 32$
 $E = 60$
- 5.) $x = 11.5$
 $y = 2$
100
64
- 6.) $x = 8$
 $y = -2$

Equations

- 3.) $m < 2 = m < 4$; $m < 9 + m < 12 = 180$
- 4.) $m < 2 = m < 9$; $m < 4 + m < 12 = 180$
- 5.) $m < 16 = m < 7$; $m < 14 + m < 12 = 180$
- 6.) $m < 5 + m < 8 = 180$; $m < 14 + m < 15 = 180$