

Palomar College Math Placement Test Study Guide
Intermediate Algebra

Topic 13: Additional Topics in Coordinate Geometry

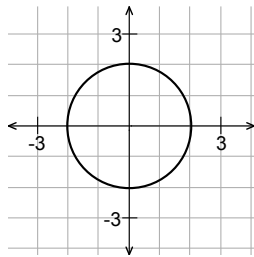
1. Find the distance between the two points $(-2, 3)$ and $(3, 7)$
2. Find the distance between the two points $(-1, 4)$ and $(-5, -2)$
3. Find the midpoint of the line segment whose endpoints are $(5, -3)$ and $(8, -3)$
4. Find the midpoint of the line segment whose endpoints are $(-4, -6)$ and $(-1, 4)$.
5. Graph $x^2 + y^2 = 4$
6. Consider the circle given by the equation $(x - 2)^2 + (y + 3)^2 = 16$
 - a. Find the center of the circle
 - b. Find the radius of the circle
 - c. Find 4 points on the circle
 - d. Graph the circle

Palomar College Math Placement Test Study Guide
Intermediate Algebra

Topic 13: Additional Topics in Coordinate Geometry

Answers:

1. $\sqrt{41}$
2. $2\sqrt{13}$
3. $(7, -3)$
4. $(-5/2, 2)$
5. GSP



6. a) $(2, -3)$ b) 4 units
c) some possible points are $(6, -3)$, $(-2, -3)$, $(2, 1)$, $(2, -7)$
d)

