

MATH 022 Sections 016 and 019
Fall 2007
MOCK QUIZ 2

1. Find a point on the y -axis that is equidistant from the points $(5, 2)$ and $(3, 10)$.

- a) $(5, 0)$
- b) $(0, 5)$
- c) $(0, -5)$
- d) $(0, 6)$
- e) $(6, 0)$

2. Find the x - and y -intercepts of the graph of the equation $y = \sqrt{3\sqrt{x} + 11}$.

- a) x -intercept $\frac{121}{9}$, y - intercept $\sqrt{11}$
- b) x -intercept $-\frac{11}{3}$, y - intercept $i\sqrt{11}$
- c) x -intercept $-\frac{121}{3}$, y - intercept $-\sqrt{11}$
- d) x -intercept $\frac{11}{3}$, y - intercept $-\sqrt{11}$
- e) x -intercept $-\frac{121}{9}$, y - intercept $-\sqrt{11}$

3. Find the center and radius of the circle given by the equation $x^2 + y^2 - 4x - 12y = 24$.

- a) center (2, 6), radius 64
- b) center (6, 2), radius 64
- c) center (4, 12), radius 8
- d) center (-2, -6) radius 8
- e) center (2, 6), radius 8

4. Determine the correct equation for the line passing through the point (12, -11) and parallel to the line connecting (-1, 5) and (4, 25).

- a) $y = 4x - 59$
- b) $y = -\frac{1}{4}x - 63$
- c) $y = \frac{1}{4}x + 63$
- d) $y = -\frac{1}{4}x - 11$
- e) $y = 4x + 59$

5. Express the statement “ y is inversely proportional to x ” as a formula. Use the information that if $x = 3$ then $y = 21$ to find the constant of proportionality.

- a) 10
- b) 12
- c) 11
- d) 7
- e) 63