

MA 152 Exam #3 Answers

1)  $x > -9/2$

2)  $d(A,B) = d(B,C) = \sqrt{20}$  or  $2\sqrt{5}$

3) center = (3,-5) radius = 2

4)  $y = -1/2(x - 3)^2 + 2$

5)  $f(-3) = -5$

$$1/g(2) = 2$$

$$(g \circ f)(x) = \frac{1}{4 - x^2}$$

6) the graph crosses the x-axis at 1, 0, 2

7)  $f^{-1}(x) = 3 - 2x$

8)  $y/x$

9)  $V(t) = 12,500 - 800t$

$$t = 9 \text{ yrs}$$

10) 18,048