Penny Luczak

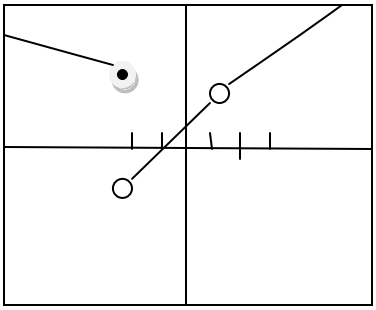
Calc 1 MTH-140

Test 1 review answers

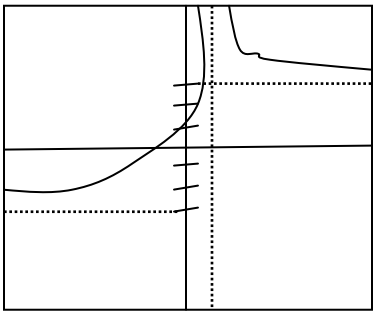
1. Let delta= $\frac{4}{3}\epsilon$
   Proof: when |x-4|<$\frac{4}{3}\ \epsilon$ then $|(\frac{3}{4}x+5)-8|<\epsilon$

2. F(x) not defined, therefore not continuous

3. Continuous

4. 

Answers may vary

5. 

6. Jump discontinuity at X=0

7. Removable discontinuity at x=0
   Infinite discontinuity at x=-4

8. A. 0
   b. 6x-4

c. $\frac{1}{4}$

d. $-\frac{1}{4}$

9. A. -∏

b. e

c. ∞

d. 0

e. $\frac{1}{3}$

f. -∞

g. 3

10. A. False ex. F(x)=$\frac{1}{x^2+1}$

b. True: because they agree everywhere but zero

11. F(x) must be positive at (0, 2)