Today's Plan:

Learning Target (standard): I will evaluate limits.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, and take a test over limits.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide test problems.

Assessment: Board work, homework check and test

Differentiation: Students will work at the board, go over and correct homework at their seats, and actively engage in test problems.

Assignment 4 #1-29

1) -13
2) $2a$
3) $-\frac{1}{5}$
4) 0
5) $\frac{5}{13}$
6) 3
7) DNE
8) 4
9) DNE
10) 1
11) -6
12) 5
13) 32
14) 5
15) 0
16) 5
18) 1
19) DNE

* skip #17,22 & 27

20) 0
21) $\frac{3}{5}$
23) -3
24) 5
25) 1
26) 1
28) $DNE, 2, DNE$
29) $2, 1, 0$

Evaluate:

$$\lim_{x\to\infty}\frac{\sqrt{x^2-4x+5}}{x^2}$$

$$= \lim_{x\to\infty} \frac{\sqrt{\frac{x^2}{x^4}-\frac{4x}{x^4}+\frac{5}{x^4}}}{\frac{x^2}{x^2}}$$

$$= \lim_{x\to\infty} \frac{\sqrt{\frac{1}{x^2}-\frac{4}{x^3}+\frac{5}{x^4}}}{1}$$

$$= \frac{\sqrt{0-0+0}}{1}$$

$$= 0$$