## Today's Plan:

Learning Target (standard): I will review for the semester exam.

**Students will**: Complete practice problems over previous concepts at the boards and study for my exam.

**Teacher will**: Provide practice problems over previous concepts, check homework problems for accuarcy and provide students feedback, describe and provide examples of exam problems.

Assessment: Board work

**Differentiation**: Students will work at the board, actively engage in practice review concepts with the aid of other students and the teacher.

### Simplify.

$$\frac{(5-8i)(8+i)}{=40+5i-64i-8i^2}$$

$$=40-59i+8$$

$$=48-59i$$

# Simplify.

$$-3(6-4i)+7(5-2i)$$

$$= -18+12i+35-14i$$

$$= 17-2i$$

Simplify. 
$$(-6-3i)+(-6+6i)$$

$$= -12 + 3i$$

Simplify. Synthetic 
$$(9p^{3}+36p^{2}-3)\div(p+4)$$
  $(2p+4)$   $(2p+4)$ 

Simplify.
$$(5m^{3} + 33m^{2} + 8m - 7) \div (5m + 3)$$

$$m^{2} + 6m - 2$$

$$5m + 3 [5m^{3} + 33m^{2} + 8m - 7]$$

$$-5m^{2} - 30m^{2} + 8m - 7$$

$$-30m^{2} + 8m$$

$$-10m - 7$$

$$+10m + 6$$

$$-10m + 6$$

### Simplify.

$$\frac{3\sqrt[4]{4}}{\sqrt[4]{81}} = \frac{3\sqrt[4]{4}}{\sqrt[4]{3}} = \sqrt[4]{4}$$

$$= \sqrt[4]{4}$$

$$= \sqrt[4]{4}$$

### Solve. Write solution as a set and interval.

$$1-4x \le 13$$
 and  $-4x+4 \ge -20$ 
 $-4x \le 12$  "burlap"  $-4x \ge -24$ 
 $x \ge -3$ 
 $x \le 6$ 

$$5x | -3 \le x \le 6$$

$$[-3, 6]$$

## Simplify.

$$\frac{5n^{3} + 25n^{2}}{5n^{2}} \cdot \frac{14n - 56}{2n^{2} + 10n - 72} \cdot \frac{2(n^{2} + 5n - 36)}{2(n^{4} + 5n - 36)}$$

$$= 5n^{2}(n+5) \cdot \frac{744(n-4)}{2(n+9)(n-4)}$$

$$= \frac{7(n+5)}{n+9}$$

4) 
$$\frac{1}{|7a-10|} = 2$$
 $\frac{1}{|7a-10|} = 8$ 
 $\frac$ 

55) (
$$lbm$$
)  $\frac{3}{2}$   $lb^{\frac{3}{2}}$   $q$  (#) $r$   $root$   $lb^{\frac{3}{2}}$   $= 43$ 

$$\int b \left( x^{12} \right)^{\frac{2}{3}} \frac{12^{\frac{4}{3}}}{3} \left( x^{4} \right)^{3} = x^{12}$$