

5pts
①

$$C = \frac{32 - 9F}{5}$$

$$5C = 5 \left(\frac{32 - 9F}{5} \right)$$

$$5C = 32 - 9F$$

$$9F = 32 - 5C$$

$$F = \frac{32 - 5C}{9}$$

5pts

2a

$$3 + 2x \geq 5 \quad \text{or} \quad 4 - 5x < 1$$

$$2x \geq 2$$

$$x \geq 1$$

$$-5x < -3$$

$$x > \frac{3}{5}$$



$$\{x: x > \frac{3}{5}\} = \left(\frac{3}{5}, \infty \right)$$

5pts

2b

$$-4 \leq x - \frac{2x-5}{3} \leq 5$$

$$3(-4) \leq 3 \left(x - \frac{2x-5}{3} \right) \leq 3(5)$$

$$-12 \leq 3x - (2x-5) \leq 15$$

$$-12 \leq 3x - 2x + 5 \leq 15$$

$$-12 \leq x + 5 \leq 15$$

$$-17 \leq x \leq 10$$

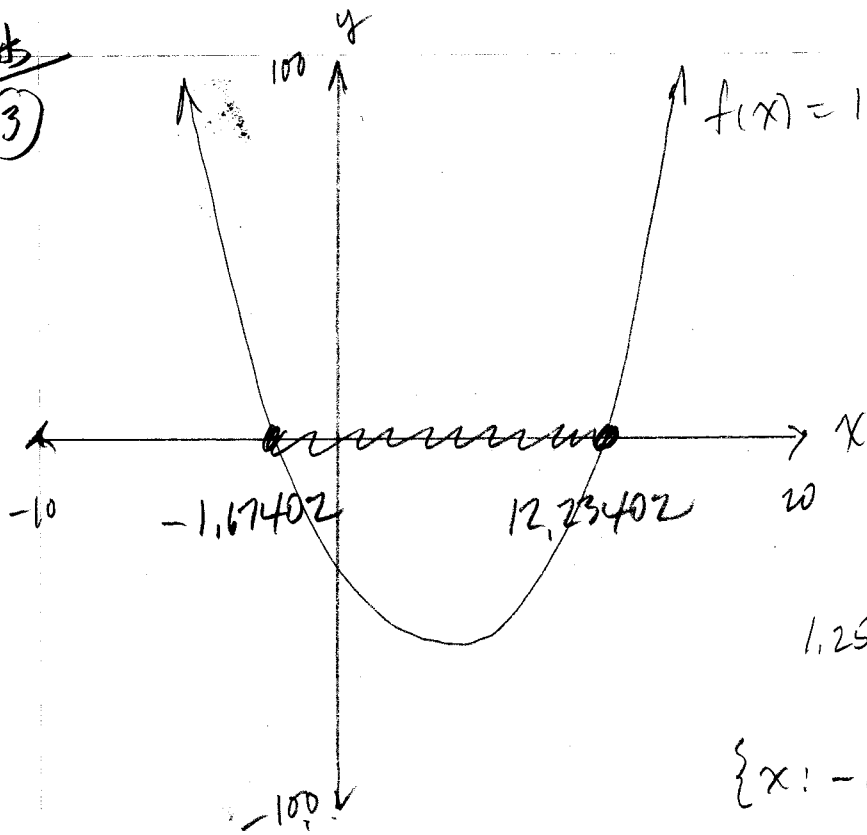


$$\{x: -17 \leq x \leq 10\} = [-17, 10]$$

35

~~113~~

10 pts
③



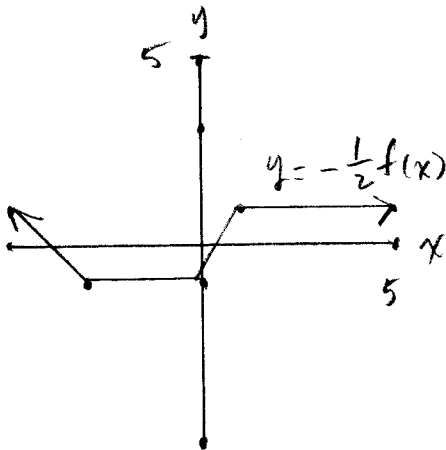
$$f(x) = 1.25x^2 - 13.2x - 25.4$$

$$1.25x^2 - 13.2x - 25.6 \leq c$$

$$\{x : -1.67402 \leq x \leq 12.234\}$$

$$= [-1.67402, 12.23402]$$

5 pts
4a



5 pts
4b

