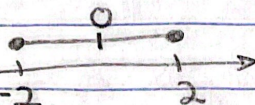


Homework for 8/8/24 (pg. 10 # 2, 3, 7, 11, 15, 34, 43, 45, 46)

2. a, d, f



3. $[-2, 2]$

$c=0$ $r=2$

$|x| \leq 2$ ✓

7. $[1, 5]$

$c=3$; $r=2$

* c is always negative in the equation... "seemingly the opposite"

$|x-3| \leq 2$

11. $|2x+1| < 5$

$-5 < 2x+1 < 5$

$-6 < 2x < 4$

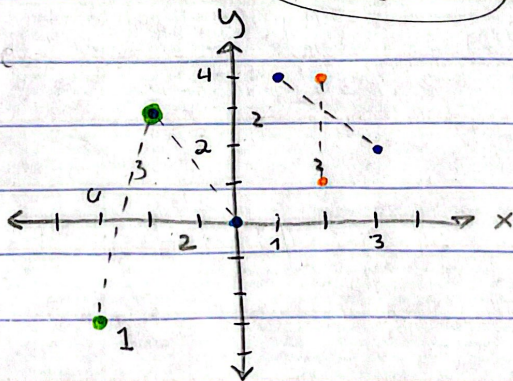
$-3 < x < 2$ ✓

15. $|x-4| < 2$

$-2 < x-4 < 2$

$2 < x < 6 \rightarrow x \in (2, 6)$ ✓

34. distance



a.) $\sqrt{8} \rightarrow 2^2 + 2^2 = d^2$
 $8 = d^2$

b.) 3 ✓

d.) $\sqrt{37}$

c.) $\sqrt{13}$ ✓

43. $g(t) = \sqrt{2-t}$

45. $h(s) = \frac{1}{s}$

$D: t \leq 2$; $R: y \geq 0$ } $D: s \neq 0$; $R: \mathbb{R}$ but 0

46. $f(x) = \frac{1}{x^2}$