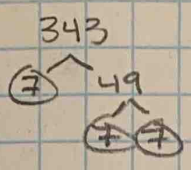


SECTION 9.5

12, 13, 15, 16, 22, 23, 31, 41, 45

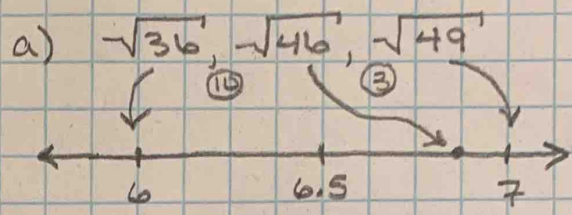
BEN WILSON
PER 3
3/26/20

12) $\sqrt[3]{343}$
 $\sqrt[3]{7 \cdot 7 \cdot 7}$



- 7
- NATURAL
- WHOLE
- INTEGER
- RATIONAL

22) $\sqrt{46}$

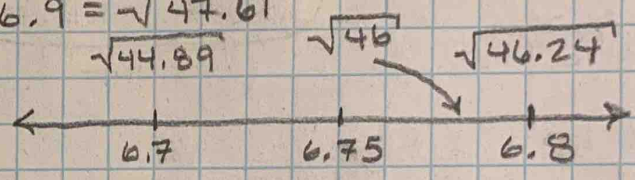


$\sqrt{46} \approx 7$

13) $\frac{\pi}{6}$ AN IRRATIONAL # DIVIDED BY 6 IS STILL IRRATIONAL.

IRRATIONAL

b) $6.7 = \sqrt{44.89}$
 $6.8 = \sqrt{46.24}$
 $6.9 = \sqrt{47.61}$



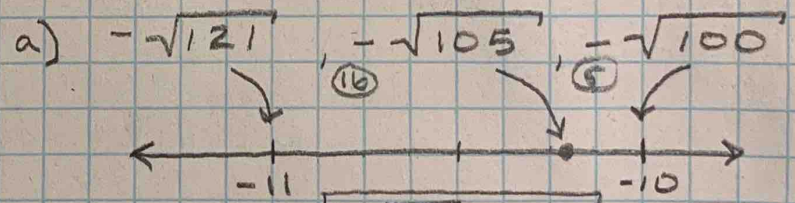
$\sqrt{46} \approx 6.8$

15) -1.125

A TERMINATING DECIMAL IS RATIONAL.

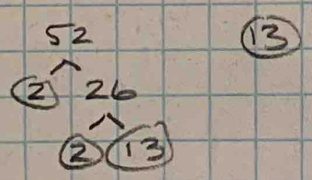
RATIONAL

23) $-\sqrt{105}$



$-\sqrt{105} \approx -10$

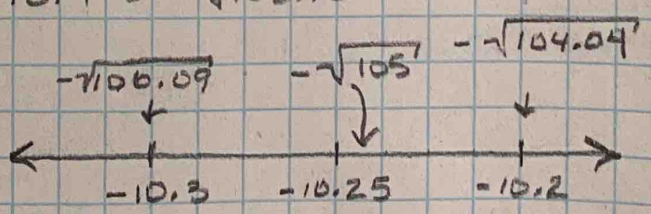
16) $\frac{52}{13}$ } SIMPLIFY



$\frac{2 \cdot 2 \cdot 13}{13}$

- 4
- NATURAL
- WHOLE
- INTEGER
- RATIONAL

$-10.2 = -\sqrt{104.04}$
 $-10.3 = -\sqrt{106.09}$
 $-10.4 = -\sqrt{108.16}$



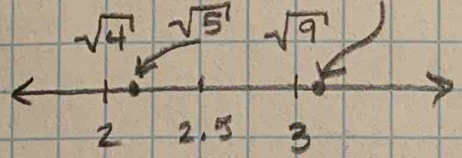
$-\sqrt{105} \approx -10.2$

31, 41, 45

31) $\sqrt{5}$, π

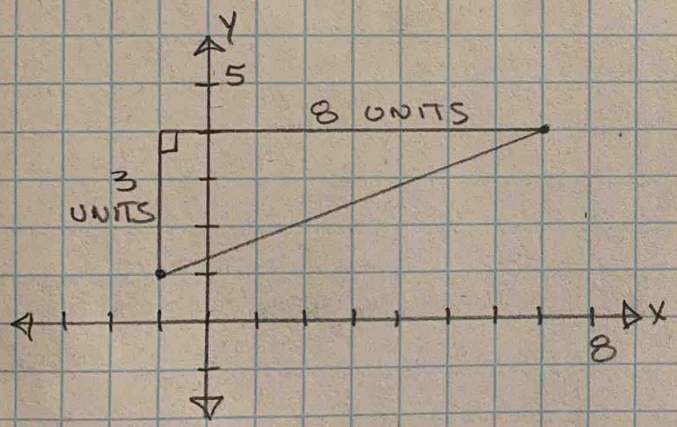
$\sqrt{1} = 1$
 $\sqrt{4} = 2$
 $\sqrt{9} = 3$
 $\sqrt{16} = 4$

$\pi \approx 3.14$



$\sqrt{5} < \pi$

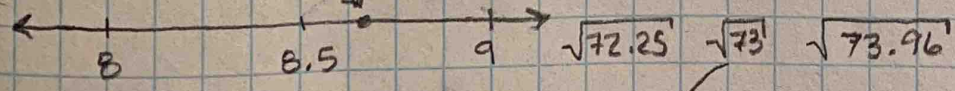
41) $(-1, 1)$, $(7, 4)$



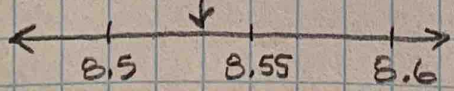
$a^2 + b^2 = c^2$
 $(3)^2 + (8)^2 = c^2$
 $9 + 64 = c^2$
 $\sqrt{73} = c$

$c = \sqrt{73}$

$\sqrt{64}$, $\sqrt{73}$, $\sqrt{81}$
 8 (ii) (i) 9

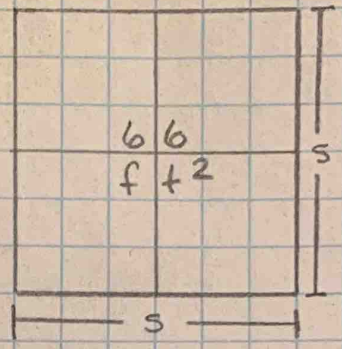


$8.5 = \sqrt{72.25}$
 $8.6 = \sqrt{73.96}$
 $8.7 = \sqrt{75.69}$



THE DISTANCE BETWEEN THE 2 POINTS IS APPROX. 0.5 UNITS

45)



$A = s^2$
 $\sqrt{(66)} = \sqrt{s^2}$

$s = \sqrt{66}$

$\sqrt{64}$, $\sqrt{66}$, $\sqrt{81}$
 8 (ii) (i) 9

THE SIDE LENGTH S IS APPROX. 8ft.