

Solve

A 3
B 4
C 5
D 6

$$\begin{array}{l} 5x - 3 = 2x + 9 \\ \hline -2x \quad \downarrow \quad -2x \\ \hline 3x - 3 = 9 \\ \hline +3 \quad +3 \\ \hline \frac{3x}{3} = \frac{12}{3} \end{array} \quad \textcircled{x=4}$$

Solve

$$\begin{array}{r}
 4x - 5 = x + 22 \\
 \underline{-x \quad \downarrow \quad -x \quad \downarrow} \\
 3x - 5 = 22 \\
 \underline{+5 \quad +5} \\
 3x = 27 \\
 \frac{3x}{3} = \frac{27}{3} \quad \textcircled{x=9}
 \end{array}$$

Solve

$$\begin{array}{r}
 10x + 2 = 102 \\
 \underline{+2 \quad -2} \\
 10x = 100 \\
 \frac{10x}{10} = \frac{100}{10} \\
 \textcircled{x=10}
 \end{array}$$

Solve for x

$$\begin{array}{r} -6x \geq 66 \\ \hline -6 \quad -6 \\ \hline x \leq -11 \end{array}$$

- List 3 rational numbers.

$$\frac{8}{4}, \frac{10}{5}, \frac{12}{6}$$

Rational #'s - can be written as a fraction

Solve for x

$$\sqrt{x} = \sqrt{9}$$

$$x = 3$$

$$\sqrt{9} = 3$$

$$3^2 = 9$$

Solve
for
x

$$\sqrt{x} = 10^2$$

$$x = 10^2 = 100$$

Solve
for
x

$$\cancel{12} \cdot \frac{x}{\cancel{12}} > 3 \cdot 12$$

$$x > 36$$

Solve

$$3x + 10 = 2x + 30$$

$$\begin{array}{r} -2x \\ 3x + 10 = 2x + 30 \end{array}$$

$$\begin{array}{r} x + 10 = 30 \\ -10 \quad -10 \end{array}$$

$$\frac{x}{1} = \frac{20}{1} \quad x = 20$$

Solve for x

$$\begin{array}{r} X + 4 = 7 \\ \underline{-4} \quad \underline{-4} \\ X = 3 \end{array}$$

$$\cancel{3} \cdot \frac{X}{-3} \leq 10 \quad -3$$

$$X \leq -30$$

$$X \geq -30$$

★ List 3 Rational #'s

2, 7, 8

Rational #'s - #'s that can be written as a fraction

Solve for x

$$3x + 4 = x + 22$$

$$\begin{array}{r} -x \qquad \qquad -x \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{2x} + 4 = 22 \\ \quad \quad -4 \quad -4 \\ \hline \end{array}$$

$$\begin{array}{r} 2x = 18 \\ \hline x = 9 \end{array}$$

★

$$\begin{array}{r} \hline 2x \quad 18 \\ \hline x = 9 \end{array}$$

$$\boxed{x = 9}$$

Solve

$$2x + 4 \leq 5x + 25$$

$-2x$ $-2x$ ↓

$$4 \leq 3x + 25$$

-25 -25

$$\frac{-21}{3} \leq \frac{3x}{3}$$

$$\boxed{-7 \leq x}$$

• Which # is irrational

a.) 3.14156238

b.) $\frac{1}{2}$

c.) .3333333

d.) 7.2867145

A
D

Solve for x

$$\begin{array}{r} -3x + 2 \geq 14 \\ \underline{-2} \quad \underline{-2} \end{array}$$

$$+3x \geq 12$$

$$\begin{array}{r} \textcircled{-3} \quad \textcircled{+3} \\ \underline{\hspace{2cm}} \end{array}$$

$$x \leq -4$$

$$\sqrt{x^2} = \sqrt{49}$$

$$x = \sqrt{49} = 7$$

$$7 \times 7 = 49$$

Solve for x

$$\sqrt{x} = 4$$

$$x = 4^2 = 16$$

$$x = 16$$

X

Solve for x

$$\frac{x}{-5} \leq 5$$

$x \geq -25$

