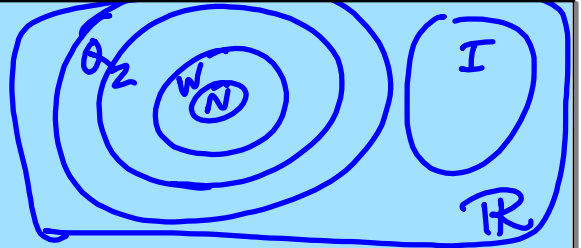


ALG 2 REVIEW



Natural = N 1, 2, 3, 4, ...

Whole = W 0, 1, 2, 3, 4, ...

Integers = Z ... -3, -2, -1, 0, 1, 2, 3, ...

Rational = Q $\frac{m}{n}$ $\frac{2}{3}, \frac{-3}{2}, \frac{4}{7}$
 terminating or repeating decimals 6.375

Irrational = I $\pi, e, \sqrt{2}, \sqrt{7}$ 8.3729
 non-terminating, non-repeating decimals

Real = R all rational + irrational numbers

$6(x) - \frac{23}{7}$ Q, R

Significant Digits

$$\frac{100.06}{5}$$

$$\frac{20,100,900}{6}$$

$$3. \quad \frac{4.2 \text{ m}}{2} \times \frac{0.03 \text{ m}}{1} \times 50 = 6.3 = 6 \text{ m}^2$$

$$3.75 \text{ ft} + 104.6 \text{ ft} = \frac{3.75}{104.6} = 108.35 = 108.4 \text{ ft}$$

$$420 \frac{\text{cm}}{\text{sec}} \quad \text{to} \quad \frac{\text{m}}{\text{min}}$$

$$420 \frac{\text{cm}}{\text{sec}} \cdot \frac{1 \text{ m}}{100 \text{ cm}} \cdot \frac{60 \text{ sec}}{1 \text{ min}} = \frac{420 \cdot 60 \cdot 1}{100 \cdot 1} = 252 \frac{\text{m}}{\text{min}}$$

$$\frac{2}{5} + 3x = \frac{1}{2}(x-6)$$

$$4 + 30x = 5(x-6)$$

$$4 + 30x = 5x - 30$$

$$25x = -34$$

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

$$4 = \frac{9}{2} - 3x$$