

Classify

Infographics

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$$\pi = a^2 + b^2$$

$$a + bx =$$



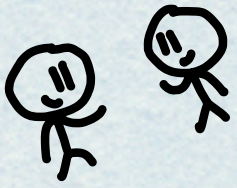
This math ain't mathing

| Linear equation with One Solution | |
|---|---|
| Definition: A one solution equation has one valuable that has a unique value . | |
| Examples: $3x + 5 = 2x + 8 \rightarrow x = 3$ $7x - 4 = 2x - 11 \rightarrow x = 3$ $5x + 10 = 3x - 2 \rightarrow x = -6$ $9x - 7 = 2x - 20 \rightarrow x = \frac{27}{7}$ | If the equation simplifies to something like $x = A$ where A is a real number, it's a one solution equation |
| | |

$$Ax + B = Bx + A$$



$$A + B = A + B$$



| Linear equation with infinite Solutions | |
|---|---|
| Definition: A linear equation with infinite solutions is an equation that is always true, even with the x value | |
| Examples: $2(x+3) = 2x + 6$ $5x + 10 = 5(x+2)$ $3(2x-4) = 6x - 12$ $7x + 14 = 7(x+2)$ | An equation has infinite solutions when both sides simplify to the same equation |
| | |
| $A + B = A + B$ | |

| Linear equation with no Solutions | |
|--|--|
| Definition: A linear equation with no solution(s) is an equation that isn't true when simplified | |
| Examples: $3(x+2) = 3x + 10$ $5x + 7 = 5x - 2$ $2(4x - 3) = 8x + 5$ $7x + 9 = 7x + 4$ | An equation has no solution when the variable terms cancel each other out |
| | |
| I don't like you OR $A + C =$ | |



$$A + C = F$$

| Exercise Practice Questions! | |
|---|---|
| Figure out if the four equations shown are one solution , infinite solutions , or no solutions | |
| 1. $4(x-2) + 3 = 2x + 7$ | Don't forget to show ALL of your work! Remember, this is a practical exam and you won't have time to do it! Answer Key |
| 2. $6x + 3 = 3(2x + 1)$ | |
| 3. $5(x-4) + 10 = 5x - 10$ | |
| 4. $2(3x + 5) = 6x + 10$ | |

