Algebraic Reasoning & Algebra

Infinitely Many & no solutions

3) $5(t + 3.5) = 2t + 3t + 17.5$

$5t + 17.5 = 5t + 17.5$

Infinitely Many

1) $5m + 4 = 3m + 12$

$-3m \quad -3m$

$2m + 4 = 12$

$-4 \quad -4$

$\frac{2m}{2} = \frac{8}{2}$

$m = 4$

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4) $\frac{1}{2}(5z+1) = \frac{2}{2}z + \frac{3}{2}z$

$\frac{5}{2}z + \frac{1}{2} = \frac{5}{2}z$

NO solution

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2) $8 - 21R = 9(2 + R)$

$8 - 21R = 18 + 9R$

$-8 \qquad -8$

$-21R = 10 + 9R$

$-9R \qquad -9R$

$\frac{-30R}{-30} = \frac{10}{-30}$

$R = -\frac{1}{3}$

$\frac{200}{5000}$

$\frac{2}{50} = \frac{1}{25}$

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5)

$4(x-5) = 4x-20$

$4x-20 = 4x-20$

Infinitely Many

$-6x+12 = 3x+12-9x$

$-6x+12 = -6x+12$

Infinitely Many

$7x+3 = 7x-3$

$-7x \quad -7x$

NO solution

$5x+2.5-5x = 0$

$2.5 = 0$

NO solution