

Name : _____

Systems of Equations

Determine whether each system of linear equations has 'unique solution', 'no solution' or 'infinitely many solutions'.

1) $6m - 3n + 8 = 0$
 $4m = -1 + 2n$

2) $-2x = 4y - 16$
 $12y + 6x = 48$

3) $3p + 2q = -5$
 $-6q + 4p = -6$

5) $20d - 2c = 18$
 $16 = -c + 10d$

7) $15x + 5y - 20 =$
 $-9x = -12 + 3y$

9) $7v + 6w = 2$
 $-14v = 18w - 5$

10) $15s + 10t = 34$
 $-9s - 6t + 17 = 0$

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Systems of Equations

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1) $6m - 3n + 8 = 0$
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2) $-2x = 4y - 16$
 $12y + 6x = 48$

no solution**infinitely many solutions**

3) $3p + 2q = -5$
 $-6q + 4p = -6$

unique solution**no solution**

5) $20d - 2c = 18$
 $16 = -c + 10d$

no solution**unique solution**

7) $15x + 5y - 20 = 0$
 $-9x = -12 + 3y$

infinitely many solutions**no solution**

9) $7v + 6w = 2$
 $-14v = 18w - 5$

unique solution

10) $15s + 10t = 34$
 $-9s - 6t + 17 = 0$

no solution

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