

Name: _____

Parallel, Perpendicular, or Neither?

Determine whether the given pairs of lines are 'Parallel', 'Perpendicular' or 'Neither'.

a $y = 3x - 7$

$y = 3x + 1$

b $y = -\frac{2}{8}x + 37$

$y = \frac{2}{8}x + 18$

c $y = \frac{7}{4}x$

$y = 14x + 5$

d $y = 2x$

$y = -\frac{1}{2}x + 8$

e $2x + 17y = 24$

$17x - 2y = 14$

f $x + y = 11$

$x - y = 15$

g $y - 9 = \frac{1}{3}x$

$x - 3y = 3$

h $4y + 9y - 18 = 0$

$y - 4x = 9$

i $y = 1 + 2x$

$y = -3 + \frac{1}{2}x$

j $6x - 10y = 10$

$3y - 21 = -5x$

k $7x - 8y = 8$

$7y = \frac{1}{3}x + 11$

l $y - x = 1$

$y = 3 + x$

Name: _____

Parallel, Perpendicular, or Neither?

Answers

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Parallel

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Neither

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Neither

f $x + y = 11$

$x - y = 15$

Perpendicular

g $y - 9 = \frac{1}{3}x$

$x - 3y = 3$

Perpendicular

h $4y + 9y - 18 = 0$

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Perpendicular

i $y = 1 + 2x$

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Parallel

j $6x - 10y = 10$

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Neither

k $7x - 8y = 8$

$7y = \frac{1}{3}x + 11$

Neither

l $y - x = 1$

$y = 3 + x$

Perpendicular

Neither

Parallel