Finding Slope of
Parallel and Perpendicular lines

1. Find the slope to determine whether the given lines are 'Parallel' or 'Perpendicular'.

a $y = 6x + 7$ and $y = 6x - 3$

b $y + \frac{5}{2} = -3x$ and $-\frac{1}{3}x + y = 7$

c $y - 1 = x$ and $y = -x + 9$

d $5 = x - y$ and $x + 7 = y$

e $y = 2x - 6$ and $y + 6 = -\frac{1}{2}x$

f $5x + 4y = 12$ and $5y - 4x = 55$

2. Find the slope of a line parallel to the given one.

a $22x + \frac{4}{7}y = 7$

b $y - 5x + 8 = 0$

c $2y - 16 = x$

d $2x + 3y = 10$

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Parallel and Perpendicular lines

MATH MONKS

1.

Answers

a $y = 6x + 7$ and $y = 6x - 3$

Parallel

b $y + \frac{5}{2} = -3x$ and $-\frac{1}{3}x + y = 7$

Perpendicular

c $y - 1 = x$ and $y = -x + 9$

Perpendicular

d $5 = x - y$ and $x + 7 = y$

Parallel

e $y = 2x - 6$ and $y + 6 = -\frac{1}{2}x$

Perpendicular

f $5x + 4y = 12$ and $5y - 4x = 55$

Perpendicular

2.

a $22x + \frac{4}{7}y = 7$

$-\frac{77}{2}$

b $y - 5x + 8 = 0$

5

c $2y - 16 = x$

$\frac{1}{2}$

d $2x + 3y = 10$

$-\frac{2}{3}$