



MATHS

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MATHS (ENGLISH)

LINEAR FUNCTIONS

Examples

1. Describe the line $3x = 12$.



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2. Describe the line $x - 3y = 6$.



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3. Write an equation of the line containing (6,-5) and having slope $\frac{3}{4}$.



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4. Write an equation of the line containing (1,-3) and (-4,-2).



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5. The equation of line l_1 is $y = 2x + 3$, and the equation of line l_2 is $y = 2x - 5$.



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6. The equation of line l_1 is $y = \frac{5}{2}x - 4$, and the equation of line l_2 is $y = -\frac{2}{5}x + 9$.



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7. Write an equation of the line containing (1,7) and parallel to the line $3x+5y=18$.



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8. Write an equation of the line containing $(-3,2)$ and perpendicular to $y=4x-5$.



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9. Given point $(2,-3)$ and point $(-5,4)$, find the length of \overline{PQ} and the coordinates of the midpoint, M.



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1. The slope of the line through points A(3,-2) and B(-2,-3) is

A. -5

B. $-\frac{1}{5}$

C. $\frac{1}{5}$

D. 1

Answer: C



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2. The slope of line $8x + 12y + 5 = 0$ is

A. $-\frac{3}{2}$

B. $-\frac{2}{3}$

C. $\frac{2}{3}$

D. 2

Answer: B



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3. The slope of the line perpendicular to line

$$3x - 5y + 8 = 0 \text{ is}$$

A. $-\frac{5}{3}$

B. $-\frac{3}{5}$

C. $\frac{3}{5}$

D. $\frac{5}{3}$

Answer: A



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4. The y-intercept of the line through the two points whose coordinates are (5,-2) and (1,3) is

A. $-\frac{5}{4}$

B. $\frac{5}{4}$

C. $\frac{17}{4}$

D. 7

Answer: C



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5. The equation of the perpendicular bisector of the segment joining the points whose coordinates are (1,4) and (-2,3) is

A. $3x - 2y + 5 = 0$

B. $x - 3y + 2 = 0$

C. $3x + y - 2 = 0$

D. $x = 3y + 11 = 0$

Answer: C



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6. The length of the segment joining the points with coordinates $(-2,4)$ and $(3,-5)$ is

A. 2.8

B. 3.7

C. 10

D. 10.3

Answer: D



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7. The slope of the line parallel to the line whose equation is $2x+3y=8$ is

A. -2

B. $-\frac{3}{2}$

C. $-\frac{2}{3}$

D. $\frac{2}{3}$

Answer: C



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