Solving Multi-step Equations

Must show work! No work = No Credit

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#	Problem	Work	Solution
1	-20 = -4x - 6x		X=
2	- 1-5-12- 9		P=
	p - 1 = 5p + 3p - 8		
3	2(4x - 3) - 8 = 4 + 2x		X=
4	-3(4x+3) + 4(6x+1) = 43		X=
5	-5(1-5x) + 5(-8x-2) = -4x - 8x		X=

Solving Midpoint Formula

The midpoint of M of the line segment from P $_{_{\! 1}}$ (x $_{_{\! 1}},$ y $_{_{\! 1}})$ to P $_{\! 2}$ (x $_{\! 2},$ y $_{\! 2})$

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$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

#	Problem	Work	Solution
1	(8, -9), (0, 5)		M = (,)
2	(2, -11), (-9, 0)		M = (,)
3	(6.6, 8.52), (-5.5, 4.07)		M = (,)
4	$\left(\frac{5}{3}, 1\right), (0, 2)$		M = (,)
5	Given the midpoint & an endpoint, find the other endpoint Endpoint: (-9, -1), midpoint: (8, 14)		E = (,)

The Distance Formula

Solving Distance Formula

For Points A($\mathbf{x_1}$, $\mathbf{y_1}$) and B($\mathbf{x_2}$, $\mathbf{y_2}$)

$$AB^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$$

$$(x_1, y_1)$$
 (x_2, y_2)
AB = $\sqrt{(7-2)^2 + (5-8)^2}$
AB = $\sqrt{5^2 + (-3)^2}$

or AB = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

= √34

Distance between A (2 , 8) and B (7 , 5) $\,$

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#	Problem	Work	Solution
1	4 -2 2 4 x		d =
2	-4 -2 2 4 x		d =
3	(5, 9), (-7, -7)		d =
4	(3, 8), (9, 10)		d =
5	(-5, 6), (8, -4)		g =

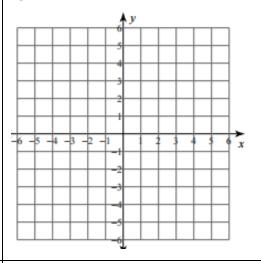
Graphing Lines

Must show work! No work = No Credit

#	Problem
π	

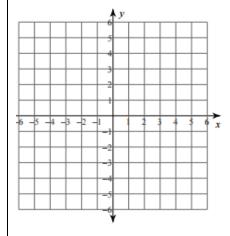
Problem

y = -5



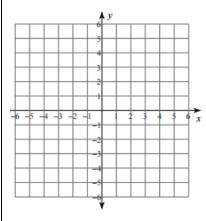
2

 $y = \frac{7}{2}x - 2$

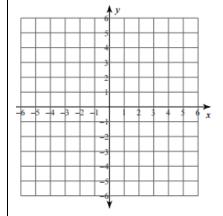


3

$$y = \frac{5}{3}x$$



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



Find the equation of a line that has slope 4 and passes through (5, 3) and graph it!

