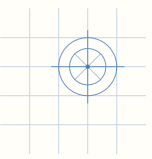


Rearranging formulas — Two variables



Name: _____

Date: _____

Rearrange each equation to make the named letter the subject.

1 $5x + 8y = 6$ for y

$$\begin{aligned} 8y &= 6 - 5x \\ \frac{6 - 5x}{8} &= y \end{aligned}$$

2 $8x + 7y = 24$ for y

3 $2x + 6y = 6$ for y

4 $5x + 8y = 18$ for x

5 $2x + 4y = 6$ for x

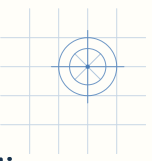
6 $9x + 2y = 18$ for y

7 $9x + 7y = 24$ for y

8 $6x + 3y = 20$ for y



Rearranging formulas · Two variables — Answer key



1. $5x + 8y = 6$ (a linear equation in two variables),
for $y \rightarrow y = 6 - 5x8$

2. $8x + 7y = 24$ (a linear equation in two variables),
for $y \rightarrow y = 24 - 8x7$

3. $2x + 6y = 6$ (a linear equation in two variables),
for $y \rightarrow y = 3 - x3$

4. $5x + 8y = 18$ (a linear equation in two variables),
for $x \rightarrow x = 18 - 8y5$

5. $2x + 4y = 6$ (a linear equation in two variables),
for $x \rightarrow x = 3 - 2y$

6. $9x + 2y = 18$ (a linear equation in two variables),
for $y \rightarrow y = 18 - 9x2$

7. $9x + 7y = 24$ (a linear equation in two variables),
for $y \rightarrow y = 24 - 9x7$

8. $6x + 3y = 20$ (a linear equation in two variables),
for $y \rightarrow y = 20 - 6x3$