**DIRECT VARIATION**

**Objective: To identify, write and graph direct variation**

**Direct variation** - is a special type of linear relationship that can be written in the form

 y = kx

where *k* is a nonzero constant called the **constant of variation.**

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| Which of the following are examples of direct variations? y = 4x y = -5x y= 6x + 1 |
| What is the constant of variation? y = 4x y = -5x y= $\frac{1}{3}$x |
| What is the constant of variation?If y = 8 when x = 4 If y = 3 when x = 5 |
| Assuming *y* varies directly with *x*If y = 8 when x = 2, find y when x = 6 |
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