

## Algebra 2: Chapter 8: Rational & Radical Functions

### 8.1: Inverse, Joint, and Combined Variation

#### Warm Up

The variable  $y$  varies directly as  $x$ . Find the constant of variation,  $k$ , and write an equation of direct variation that relates the two variables.

1.  $y = -6$  when  $x = 3$       2.  $y = 3$  when  $x = -6$       3.  $y = 3.75$  when  $x = 0.3$

The variable  $a$  varies directly with  $b$ .

4. If  $a$  is 36 when  $b$  is  $-9$ ,  
find  $a$  when  $b$  is 12.
5. If  $a$  is 36 when  $b$  is  $-9$ ,  
find  $b$  when  $a$  is 12.

#### Objectives

- Identify inverse, joint, and combined variations, find the constant of variation, and write an equation for the variation.
- Solve real-world problems involving inverse, joint, or combined variation.

**Inverse Variation:** Two variables,  $x$  and  $y$ , have an inverse-variation relationship if there is a nonzero number  $k$  such that  $xy = k$ , or  $y = k/x$ . The constant of variation is  $k$ .

**Joint Variation:** If  $y = kxz$ , then  $y$  varies jointly as  $x$  and  $z$ , and the constant of variation is  $k$ .

**Combined Variation:** when more than one type of variation occurs in one equation.

#### Examples

1.  $y$  varies inversely as  $x$ . Write the appropriate inverse-variation equation, and find  $y$  for the given value of  $x$ .

a.  $y = 40$  when  $x = 10$ ;       $x = 13$

b.  $y = 8$  when  $x = 16$ ;       $x = 8$

2.  $y$  varies jointly as  $x$  and  $z$ . Write the appropriate joint-variation equation, and find  $y$  for the given values of  $x$  and  $z$ .

a.  $y = -126$  when  $x = 3$  and  $z = 7$ ;       $x = 2$  and  $z = 9$

b.  $y = 120$  when  $x = -5$  and  $z = -2$ ;       $x = 7$  and  $z = -3$

# Chapter 8 2 Rational Radical Functions

**Valerie Sun**



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