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**Next**

Chapter 2: Trigonometric Functions

Section 2.1: Angles and Their Measure

125.  $r_1$  rotates at  $\omega_1$  rev/min, so  $v_1 = r\omega_1$ .  
 $r_2$  rotates at  $\omega_2$  rev/min, so  $v_2 = r\omega_2$ .  
 Since the linear speed of the belt connecting the pulleys is the same, we have:  
 $v_1 = v_2$   
 $r_1\omega_1 = r_2\omega_2$   
 $\frac{r_1}{r_2} = \frac{\omega_2}{\omega_1}$

126. Answers will vary.

127. If the radius of a circle is  $r$  and the length of the arc subtended by the central angle is also  $r$ , then the measure of the angle is 1 radian. Also,  
 $1 \text{ radian} = \frac{180}{\pi} \text{ degrees}$ .

$$1^\circ = \frac{1}{360} \text{ revolution}$$

128. Note that  $1^\circ = 1^\circ \left( \frac{\pi \text{ radians}}{180^\circ} \right) = 0.017 \text{ radian}$   
 and  $1 \text{ radian} \left( \frac{180^\circ}{\pi \text{ radians}} \right) = 57.296^\circ$ .

Therefore, an angle whose measure is 1 radian is larger than an angle whose measure is 1 degree.

129. Linear speed measures the distance traveled per unit time, and angular speed measures the change in a central angle per unit time. In other words, linear speed describes distance traveled by a point located on the edge of a circle, and angular speed describes the turning rate of the circle itself.

130. This is a true statement. That is, since an angle measured in degrees can be converted to radian measure by using the formula  $180 \text{ degrees} = \pi \text{ radians}$ , the arc length formula can be rewritten as follows:  $s = r\theta = \frac{\pi}{180}r\theta$ .

131–133. Answers will vary.

134.  $f(x) = 3x + 7$   
 $0 = 3x + 7$

135.  $x^2 - 9$  cannot be zero so the domain is:

$$\{x \mid x \neq \pm 3\}$$

136. Shift to the left 3 units would give  $y = \frac{1}{2}x + \frac{3}{2}$ .  
 Reflecting about the  $x$ -axis would give  $y = -\frac{1}{2}x + \frac{3}{2}$ . Shifting down 4 units would result in  $y = -\frac{1}{2}x - \frac{5}{2}$ .

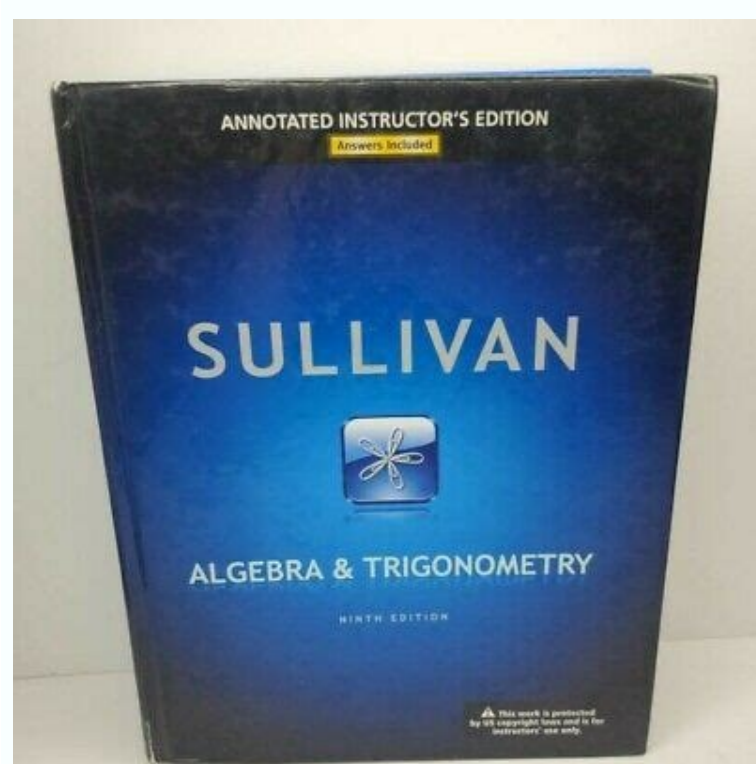
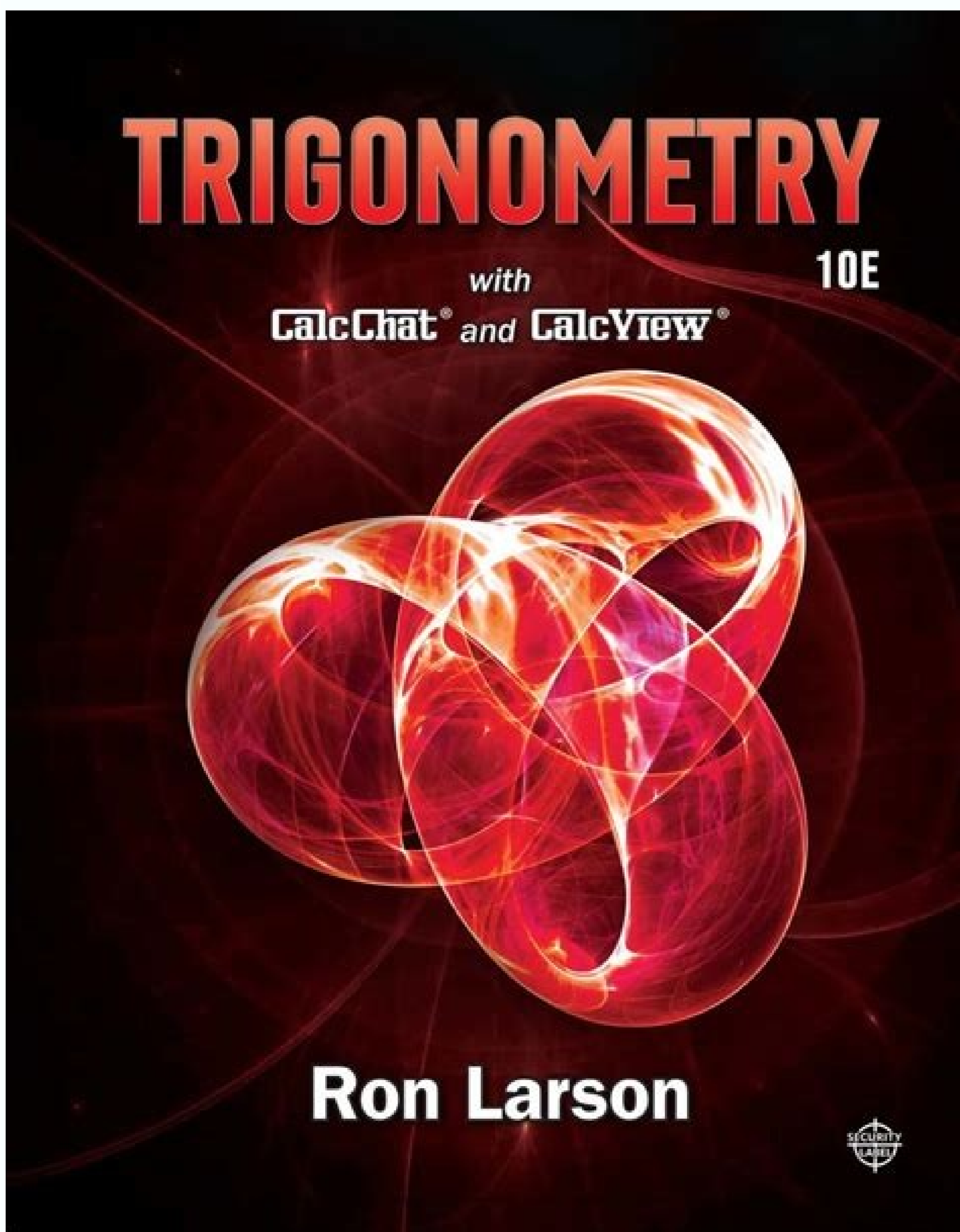
137.  $\frac{5x+3}{2}, \frac{3x+3}{2}$   
 $= \frac{3x+3}{2} - \frac{6+2}{2}$   
 $= \frac{3x-1}{2} = \frac{3}{2}x - \frac{1}{2}$

Section 2.2

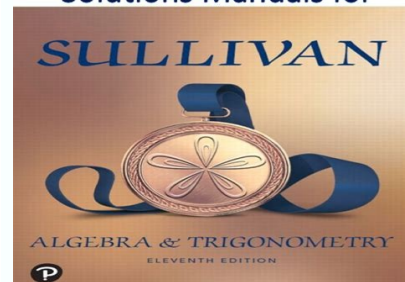
1.  $c = a^2 + b^2$
2.  $f(5) = 3(5) - 7 = 15 - 7 = 8$
3. True
4. equal; proportional
5.  $\left( \frac{1}{2}, \frac{\sqrt{3}}{2} \right)$
6.  $-\frac{1}{2}$
7. b
8.  $(0, 1)$
9.  $\left( \frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2} \right)$
10. a
11.  $\frac{2}{r}, \frac{8}{r}$

$$3x - 7 \rightarrow x = -\frac{7}{3}$$

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Solutions Manuals for





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