

Name: _____

Date: _____

Lesson 8 Assessment

1. Fill out the following table. Intercepts must be written as ordered pairs. Always use proper notation. Round to two decimal places.

	$f(x) = 2x^2 - 4x - 30$	$g(x) = 5 - x^2$	$y = 5x^2 - 4x + 17$
Opens Upward or Downward?			
Vertical Intercept			
Horizontal Intercept(s)			
Vertex			
Domain			
Range			
Axis of Symmetry (Equation)			

2. The function $H(t) = -16t^2 + 88t$ gives the height (in feet) of golf ball after t seconds. Round answers to two decimal places as needed. All answers must include appropriate units of measure.
- Determine the maximum height of the golf ball. Show your work. Write your answer in a complete sentence.
 - How long does it take for the ball to hit the ground? Show your work. Write your answer in a complete sentence.
 - Identify the vertical intercept. Write it as an ordered pair and interpret its meaning in a complete sentence.
 - Determine the practical domain of $H(t)$. Use proper notation and include units.
 - Determine the practical range of $H(t)$. Use proper notation and include units.