Alg 2BellworkTuesday, January 26, 20161. Use these functions:f(x) = x - 5 $g(x) = x^2 + 6x$ a) Find f(g(-4))b) Find g(f(x)). Simplify as much as possible.

2. Solve for *Q*. State restrictions on the variables, if any. $W = A\left(\frac{CQ+H}{M}-R\right)$

3. An object is shot into the air from the top of a 60 foot high cliff. The height of the object as a function of time is given by the following equation:

 $h(t) = -16t^2 + 240t + 60$. Round answers to the nearest hundredth.

a) Find the maximum height of the object and the time it takes to reach this height.

Max ht = Time to max ht =

b) Find the time it takes the object to hit the ground.

Answers Bellwork Tuesday, January 26, 2016 Alg 2 1. Use these functions: f(x) = x - 5 $g(x) = x^2 + 6x$ b) Find g(f(x)). Simplify as much as possible. a) Find f(g(-4)) $\begin{aligned}
g(-4) &= (-4)^{2} + G(-4) \quad f(g(-4)) &= -8 - 5 \\
&= -8 - 24 \\
&= -13
\end{aligned}$ b) Find g(f(x)). Simplify as much as possible. $\begin{aligned}
&= -(X - 5)^{2} + G(X - 5) \\
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&= -(X$ a) Find f(g(-4)) $Q = \left(\frac{W}{A} + R\right)M - H$ M+0, 4+0, C+0 3. An object is shot into the air from the top of a 60 foot high cliff. The height of the object as a function of time is given by the following equation: Round answers to the nearest.hundredth. $h(t) = -16t^2 + 240t + 60.$ a) Find the maximum height of the object and the time it takes to reach this height. $\frac{-b}{2a} = \frac{-240}{2(-16)} = 7.5$ Max ht = 960 ftTime to max ht = 7.5 <(7.5,960) b) Find the time it takes the object to hit the ground. $0 = -16t^2 + 240t + 60$ 1 $b^{2}-4ac = 61440$ $E = \frac{-240 \pm \sqrt{61440}}{-240}$