

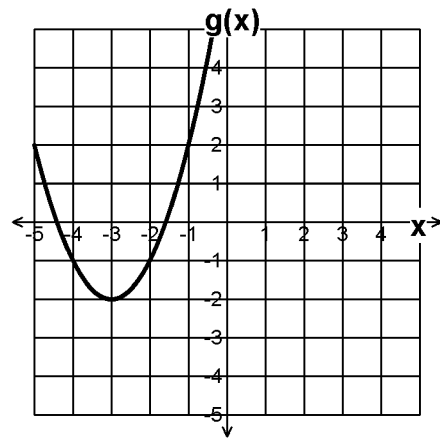
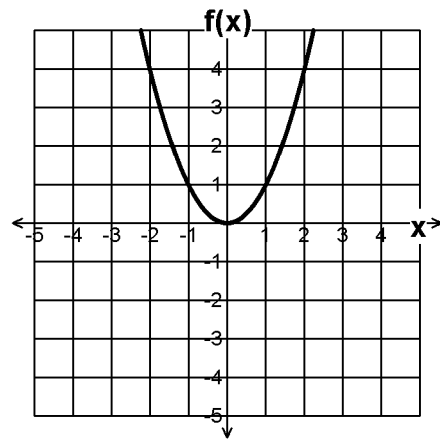
AP Calculus
Warm Up Day 8

Name _____

Period _____

Find each trig. value to the nearest thousandth.

1. $\csc \frac{\pi}{2}$



2. If $h(x) = (3x^2 - 2)^5$, find $f(x)$ and $g(x)$ such that $h(x) = f(g(x))$.

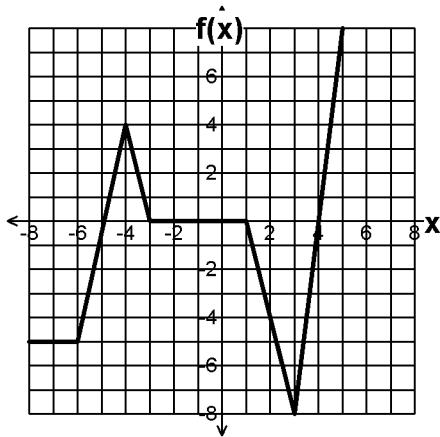
3. The figures above show the graphs of quadratic functions f and g . Which equation demonstrates the relationship between the two functions?

- a) $g(x) = f(x + 3) - 2$ b) $g(x) = f(x - 3) - 2$
c) $g(x) = f(x + 3) + 2$ d) $g(x) = 3f(x) - 2$
e) none of these

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4. Which of the following statements are true about function f , whose graph is shown above?

- I. f is increasing for $-6 \leq x \leq -4$.
- II. f has two zeros.
- III. f is decreasing for $-2 \leq x \leq 0$.

- a) I only
- b) II only
- c) III only
- d) I and II only
- e) I, II and III

Solve.

5. $2 \log_3 5 - 4 = \log_3 x$

6. $\log(x + 5) - \log(3x) = \log(x + 1)$

1.
Answer: 1
CodePath: EAS.TRI.O.F.148
2.
Answer: $g(x) = 3x^2 - 2, f(x) = x^5$
CodePath: EAS.TRI.H.I.33
3.
Answer: a
CodePath: EAS.SAT.G.H.5
4.
Answer: a
CodePath: EAS.SAT.G.G.5
5.
Answer: $x = \frac{25}{81}$
CodePath: EAS.TRI.K.F.142
6.
Answer: $x = 1$
CodePath: EAS.TRI.K.F.157