

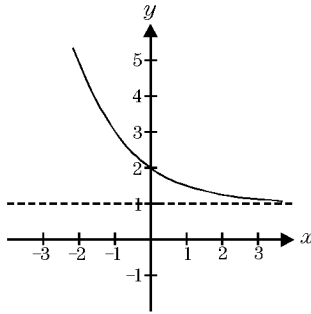
AP Calculus
Pretest Warm Up

Name _____

Date _____

Solve.

1. Which of the following functions could have the graph sketched here?



- a) $f(x) = \left(\frac{1}{2}\right)^x - 1$ b) $f(x) = 2^x + 1$
c) $f(x) = 2^{-x} + 1$ d) $f(x) = 3^{-x}$
e) $f(x) = 3^x - 1$

2. Find an expression that is equivalent to $\frac{2^{a+b} + 2^b}{3^{a-b}}$.

- a) $2^b 3^{b-a} (1 + 2^a)$ b) $2(3^{2a}) + 2(3^a)$
c) $\frac{2}{3}(a + b)$ d) $\frac{2}{3} \cdot \frac{a + 2b}{a - b}$
e) $\left(\frac{2}{3}\right)^{2a} + \left(\frac{2}{3}\right)^a$

3. Solve: $x^2 - x > 12$

- a) $x < -6$ or $x > 1$ b) $x < -3$ or $x > 4$
c) $x < -2$ or $x > 3$ d) $-6 < x < 1$
e) $-2 < x < 3$

4. Simplify $(81)^{-\frac{3}{4}}$

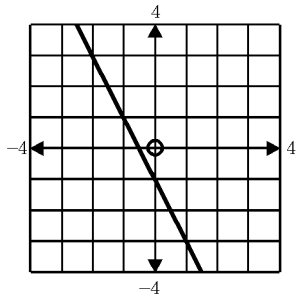
- a) $-\frac{1}{9}$ b) $-\frac{1}{3}$ c) $\frac{1}{9}$ d) $\frac{1}{3}$ e) $\frac{1}{27}$

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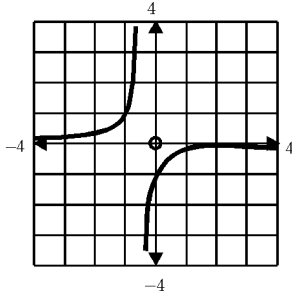
Date _____

5.

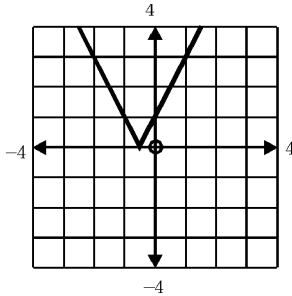


Given the graph of $f(x)$ shown above, which of the following is the graph of $|f(x)|$?

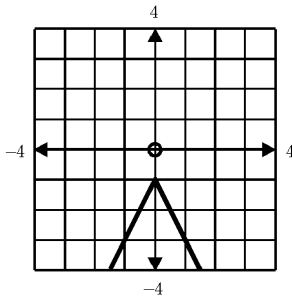
a)



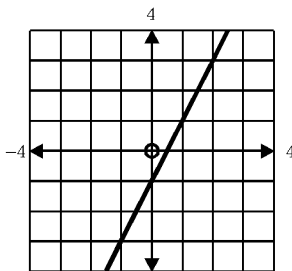
b)



c)



d)



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AP Calculus Pretest Warm Up Hopkins 9/9/2014

1.
Answer: c
CodePath: EAS.APC.A.D.34
2.
Answer: a
CodePath: EAS.APC.A.D.28
3.
Answer: b
CodePath: EAS.APC.A.A.6
4.
Answer: e
CodePath: EAS.SAT.F.D.38
5.
Answer: b
CodePath: EAS.APC.B.B.6