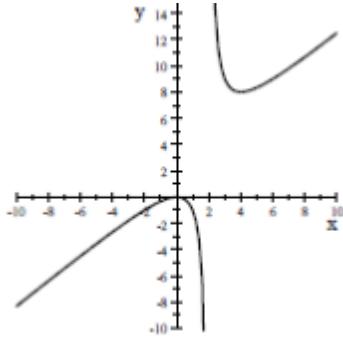


Answers to Exam 3, Spring 2014

<u>Problem</u>	<u>Form A</u>	<u>Form B</u>	<u>Actual Answer</u>
1)	B.	C.	$y = 5x + 4$
2)	A.	E.	$f'(2) = 8$
3)	A.	B.	$\frac{dh}{dx} = \frac{27x^3 + 8x}{\sqrt{9x^2 + 4}}$
4)	B.	D.	\$2198.90
5)	A.	A.	$x = 3$
6)	D.	B.	$y' = \frac{3}{x}$
7)	D.	A.	$x = 3$
8)	E.	D.	$2R + T$
9)	C.	E.	$\frac{e^x(2x^2 - 3x - 1)}{x^2(2x + 1)^2}$
10)	E.	B.	Two relative minimums and one relative maximum.
11)	D.	A.	 <p>The graph shows a function with a local maximum at approximately (-1, 1) and two local minima at approximately (-3, -1) and (1, -3). The function is increasing outside these points.</p>
12)	E.	D.	1 hour
13)	C.	A.	$(2, \infty)$
14)	A.	E.	$f''(x) = \frac{-4}{(x+1)^3}$
15)	B.	C.	$x = -2, 3$
16)	B.	D.	I and II only
17)	E.	C.	84 cars