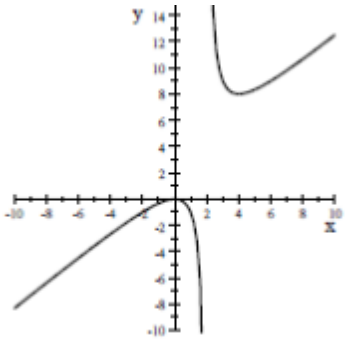
Answers to Exam 3, Spring 2014

Problem	Form A	Form B	Actual Answer
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.*	
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