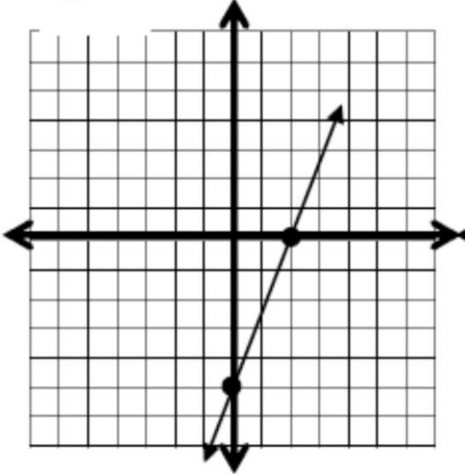


Answers MA 15200 Exam 3 Spring 2012

Problem	Form A	Form B	Actual Answer
1)	C	B	I, II, and IV (I am also counting the answer I, II, III, and IV. The textbook usually uses only open intervals for increasing/decreasing; but some students may be confused about open versus closed intervals.)
2)	D	A	$f(-2) = 4, \quad f(4) = 3$
3)	A	D	The function is increasing on $(-8, 8)$.
4)	C	D	slope: $\frac{6}{11}, \quad y\text{-intercept: } -\frac{5}{11}$
5)	B	C	$y = -\frac{2}{3}x - \frac{1}{3}$
6)	B	C	$y = \frac{5}{3}x - 2$
7)	D	D	
8)	C	A	$y = \frac{33}{2}$
9)	A	B	I and III only
10)	A	E	$f(x) = \frac{x+2}{4}$ and $g(x) = 4x - 2$
11)	C	C	\$620.89
12)	B	E	The graph will represent an increasing function.
13)	D	B	$\log\left(\frac{8x^2}{\sqrt{x+1}}\right)$
14)	E	D	$x = 25$
15)	B	B	Between 3 and 3.5 pounds (about 3.17 lb.)