Math 1330
Homework 5 (2.2)
Problem 2.2.10 refers to problem 10 in Chapter 2, Section 2 in the online text. Record your answers to all the problems in the EMCF titled "Homework 5."

1. Problem 2.2.10 a
A. yes
B. no
2. Problem 2.2.20 a
A. yes
B. no
3. Problem 2.2.36
A. Graph A
B. Graph B
C. Graph C
D. Graph D
E. Graph F, as in Frank

For numbers 4-7:
$\downarrow$ Rising left to right

Both ends up


Both ends down
4. Problem 2.2.46 a
A. $\quad x$-intercepts at $x=-6,2,5 ; \quad y$-intercept at $y=60 ; \quad$ rising left to right
B. $\quad \mathrm{x}$-intercepts at $\mathrm{x}=-6,2,5 ; \quad \mathrm{y}$-intercept at $\mathrm{y}=-60$; rising left to right
C. $\quad x$-intercepts at $x=-6,2,5 ; \quad y$-intercept at $y=-60 ; \quad$ falling left to right
D. $\quad x$-intercepts at $x=-6,2,5 ; \quad y$-intercept at $y=60$; falling left to right
E. None of the above
5. Problem 2.2.48 a
A. $\quad x$ intercepts at $x=5,3 ; \quad y$ intercept at $y=15 ; \quad$ rising left to right
B. $\quad x$ intercepts at $x=5,3 ; \quad y$ intercept at $y=45 ; \quad$ falling left to right
C. $\quad x$ intercepts at $x=5,-3,0 ; \quad y$ intercept at $y=45 ; \quad$ both ends down
D. $\quad \mathrm{x}$ intercepts at $\mathrm{x}=-5,-3 ; \quad \mathrm{y}$ intercept at $\mathrm{y}=15$; both ends up
E. $\quad x$ intercepts at $x=5,-3 ; \quad y$ intercept at $y=45 ; \quad$ falling left to right
6. Problem 2.2.54 a
A. $\quad x$-intercept at $x=5 / 2 ; \quad$ no $y$-intercept ; rising left to right
B. $\quad \mathrm{x}$-intercepts at $\mathrm{x}=5 / 2,0 ; \quad \mathrm{y}$-intercept at $\mathrm{y}=0 ; \quad$ both ends down
C. $\quad \mathrm{x}$-intercept at $\mathrm{x}=5 / 2 ; \quad$ no y -intercept; $\quad$ both ends up
D. $\quad x$-intercepts at $x=5 / 2,0 ; \quad y$-intercept at $y=0 ; \quad$ both ends up
E. None of the above
7. Problem 2.2.72 a
A. $\quad \mathrm{x}$-intercepts at $\mathrm{x}=-2,2,5 ; \quad \mathrm{y}$-intercept at $\mathrm{y}=20 ; \quad$ rising left to right
B. $\quad x$-intercepts at $x=1,4,5 ; \quad y$-intercept at $y=20 ; \quad$ rising left to right
C. $\quad x$-intercepts at $x=-2,2,5 ; \quad y$-intercept at $y=20 ; \quad$ falling left to right
D. $\quad x$-intercepts at $x=1,4,5 ; \quad y$-intercept at $y=20 ; \quad$ falling left to right
E. None of the above
8. Problem 2.2.76
A. $\quad P(x)=-x^{2}(x+8)$
B. $\quad P(x)=-x^{2}(x-4)$
C. $\quad P(x)=-x^{2}(x+4)$
D. $\quad P(x)=-x^{2}(x-2)$
E. None of the above
9. Problem 2.2.78
A. $y=\frac{1}{12}(x-2)^{2}(x-1)^{2}(x+3)^{2}$
B. $y=-\frac{1}{12}(x-2)^{2}(x-1)^{2}(x+3)^{2}$
C. $y=-\frac{1}{12}(x+2)^{2}(x+1)^{2}(x-3)^{2}$
D. $y=\frac{1}{12}(x+2)^{2}(x+1)^{2}(x-3)^{2}$
E. None of the above
10. Problem 2.2.84 Which of the following is the graph of the function?
A.

B.

C.

D.

E. None of the above


