## MAC1105 College Algebra

### 3.2 Practice Problems

1. Determine whether each graph given is the graph of an even function, an odd function, or a function that is neither even nor odd.
a.

b.

c.

d.

2. For all of the graphs where is the graph increasing? Where is the graph decreasing? Where is the graph constant?
1a.
1 b .
1 c.
1d.
3. For all of the graphs what is the domain? What is the range?

1a.
1 b .
1 c .
1d.
4. For the graphs $1 \mathrm{a}, 1 \mathrm{~b}$ and 1 c at what value(s) of $x$, if any, does $f$ have a relative minimum/maximum? List the relative minimum/maximum values.
1a.
1 b .
1 c.
5. For all of the graphs and 1 d what are the x - intercepts? What are the y -intercepts? Write ordered pairs.
1 a .
1 b .
1c.
1d.
6. Determine whether each function is even, odd, or neither.
a. $\quad f(x)=x^{3}-x$
b. $\quad h(x)=x^{2}+3$
c. $\quad g(x)=|x|+3$
d. $g(x)=x^{2}-x+2$
7. Find the x and y intercepts algebraically.
a. $\quad f(x)=-4 \mathrm{x}+8$
b. $g(x)=x^{2}-5 x+6$
c. $\quad h(x)=|x-3|-4$
d. $p(x)=2 x^{2}-3 x+4$

