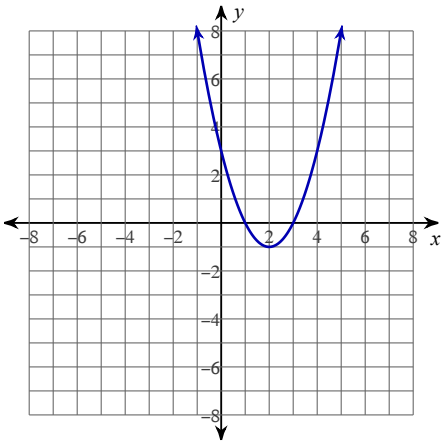
Secondary Math 2 Name_____

5.1 Identifying Key Features

Date_____ Period____

Given the following graphs, identify the each key feature. Write intervals using interval notation. Approximate where necessary.

1)



2) a. x-intercept(s): b. y-intercept:

c. axis of symmetry:

d. vertex:

e. Max/Min Value:

f. Direction of Opening

g. Domain: h. Range:

i. Increasing: j. Decreasing:

k. Positive: l. Negative:

m. End behavior:

3) a. x-intercept(s): b. y-intercept:

c. axis of symmetry:

d. vertex:

e. Max/Min Value:

f. Direction of Opening

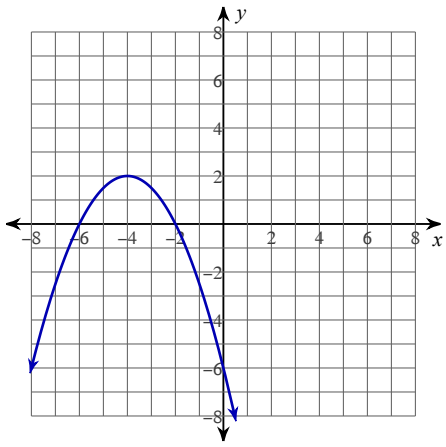
g. Domain: h. Range:

i. Increasing: j. Decreasing:

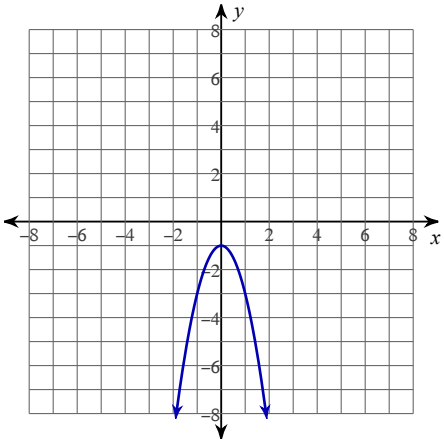
k. Positive: l. Negative:

m. End behavior:

4)



5)



6) a. x-intercept(s): b. y-intercept:

c. axis of symmetry:

d. vertex:

e. Max/Min Value:

f. Direction of Opening

g. Domain: h. Range:

i. Increasing: j. Decreasing:

k. Positive: l. Negative:

m. End behavior:

Given the following graphs, identify the each key feature. Write intervals using inequalities. Approximate where necessary.

7) a. x-intercept(s): b. y-intercept:

c. axis of symmetry:

d. vertex:

e. Max/Min Value:

f. Direction of Opening

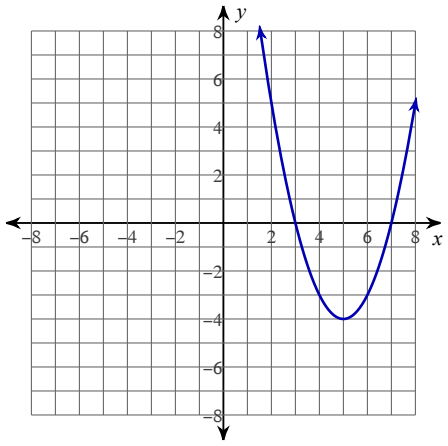
g. Domain: h. Range:

i. Increasing: j. Decreasing:

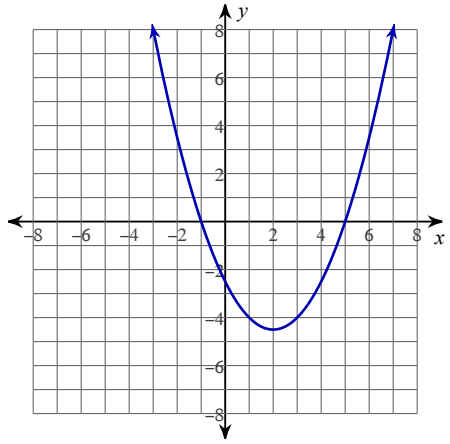
k. Positive: l. Negative:

m. End behavior:

8)



9)



10) a. x-intercept(s): b. y-intercept:

c. axis of symmetry:

d. vertex:

e. Max/Min Value:

f. Direction of Opening

g. Domain: h. Range:

i. Increasing: j. Decreasing:

k. Positive: l. Negative:

m. End behavior:

Factor each completely.

11) $p^2 + 5p - 6$

12) $x^2 + 9x$

13) $x^2 + 12x + 20$

14) $p^2 - 11p + 24$

15) $7a^3 - 10a^2$

16) $28r^3 + 184r^2 - 320r$