

Intermediate Algebra

Name: _____

Study Guide 18

Class: _____

Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. Consider $f(x) = -\frac{1}{2}x^2 - 2x$,

(a) (3 points) Find its vertex.

(a) _____

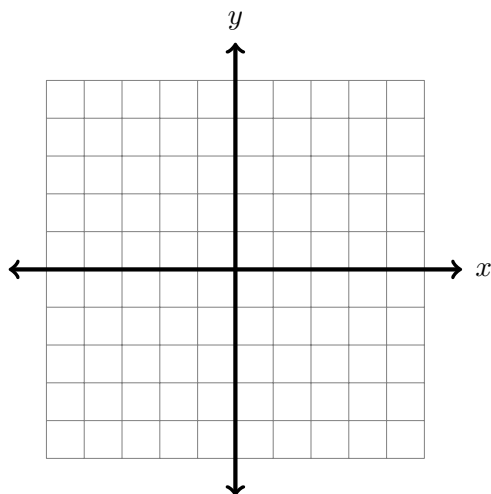
(b) (3 points) Find all its the x -ints.

(b) _____

(c) (2 points) Find its the y -int.

(c) _____

(d) (4 points) Graph. Draw its axis of symmetry.



2. Consider $f(x) = x^2 + 4x + 5$,
(a) (3 points) Find its vertex.

(a) _____

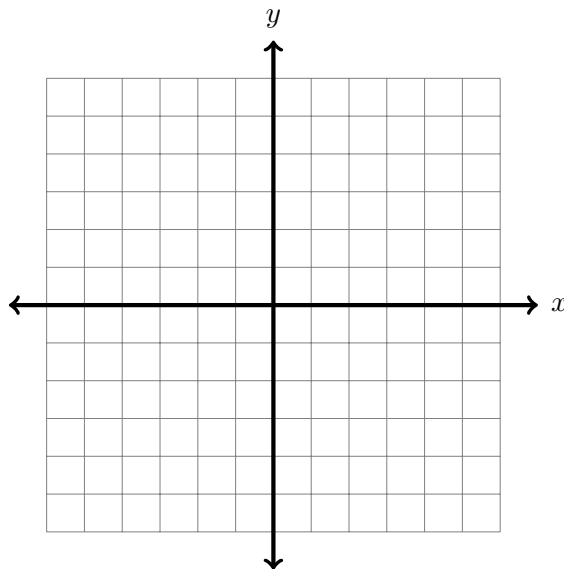
- (b) (3 points) Find all its the x -ints.

(b) _____

- (c) (2 points) Find its the y -int.

(c) _____

- (d) (4 points) Graph. Draw its axis of symmetry.



3. Consider $f(x) = -2(x + 2)^2 + 8$,
(a) (3 points) Find its vertex.

(a) _____

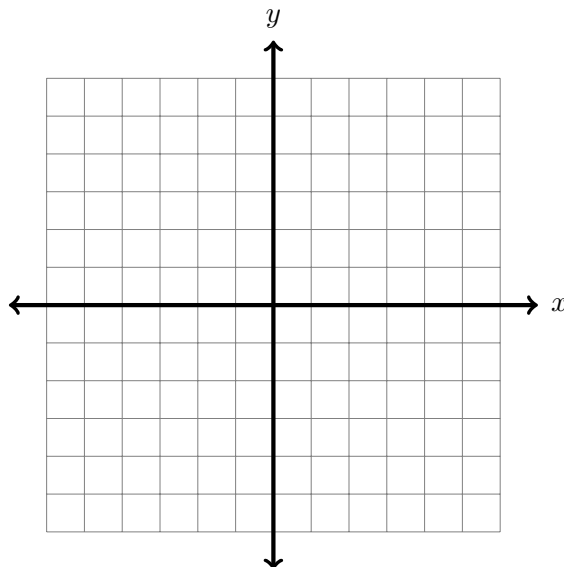
- (b) (3 points) Find all its the x -ints.

(b) _____

- (c) (3 points) Find its the y -int.

(c) _____

- (d) (4 points) Graph. Draw its axis of symmetry.



4. Consider $f(x) = \frac{1}{4}(x - 2)^2 - 4$,

(a) (3 points) Find its vertex.

(a) _____

(b) (3 points) Find all its the x -ints.

(b) _____

(c) (3 points) Find its the y -int.

(c) _____

(d) (4 points) Graph. Draw its axis of symmetry.

