Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_

Practice Quiz 2.1-2.3

**Please simplify the following.**

|  |  |
| --- | --- |
| 1. $\sqrt{x^{4}y^{2}}$
 | 1. $\sqrt{36x^{6}y^{20}}$
 |
| **Use the graph to answer the following questions.** | 1. Find the vertex of the above graph. Be sure to write as an ordered pair.
 |
| 1. Find the axis of symmetry. Be sure to write it in the correct form.
 |
| 1. List the x-intercepts. Be sure to write as an ordered pair.
 |
| 1. List the y-intercept. Be sure to write as an ordered pair.
 |
| 1. Write the equation of the above function in vertex form.
 | 1. Use the equation $f\left(x\right)=6x^{2}-7x-5$ to identify the following.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| 1. Change the following into standard form.

$$f\left(x\right)=\left(2x+1\right)\left(3x-5\right)$$ | 1. Graph the following equation.

$$f\left(x\right)= (x-2)^{2}-3$$ |