

Worksheet: Standard and Factored Forms of Quadratic Relations

Name: _____

1. The relation is given in standard form:

$$y = x^2 + x - 6$$

Change it into factored form:

Find zeros:

Find the horizontal coordinate for the vertex:

Find the vertical coordinate for the vertex:

2. The relation is given in standard form:

$$y = x^2 + 5x + 4$$

Change it into factored form:

Find zeros:

Find the horizontal coordinate for the vertex:

Find the vertical coordinate for the vertex:

3. The relation is given in standard form:

$$y = x^2 - 8x + 15$$

Change it into factored form:

Find zeros:

Find the horizontal coordinate for the vertex:

Find the vertical coordinate for the vertex:

4. The relation is given in standard form:

$$y = x^2 - 12x + 36$$

Change it into factored form:

Find zeros:

Find the horizontal coordinate for the vertex:

Find the vertical coordinate for the vertex:

5. The relation is given in standard form:

$$y = -x^2 + 2x + 8$$

Change it into factored form:

Find zeros:

Find the horizontal coordinate for the vertex:

Find the vertical coordinate for the vertex:

6. The relation is given in standard form:

$$y = x^2 + 2x - 15$$

Change it into factored form:

Find zeros:

Find the horizontal coordinate for the vertex:

Find the vertical coordinate for the vertex:

7. The relation is given in standard form:

$$y = x^2 - 10x + 24$$

Change it into factored form:

Find zeros:

Find the horizontal coordinate for the vertex:

Find the vertical coordinate for the vertex: