UNIT 2 WORKSHEET 19
FINDING THE EQUATION OF A QUADRATIC FUNCTION

Find the equation of a parabola that opens up, and has the following x intercepts.

1) (-3,0) and (4,0)

2) (-12,0) and (-3,0)

3) (2,0) and (5,0)

Find the equation of a parabola that opens down, and has the following x intercepts.

4) (-2,0) and (6,0)

5) (1,0) and (7,0)

6) (5,0)

7) Find the equation of a parabola that has a vertex of (-3,2) and contains the point (4,7).

8) Find the equation of a parabola that has a vertex of (4,5) and contains the point (-2,-2).

9) Find the equation of a parabola that has a vertex of (-2,-3) and contains the point (4,1).

10) Find the equation of a parabola that has a vertex of (0,3) and passes the x axis at (7,0).

11) Find the equation of a parabola that has a vertex of (3,-1) and has a y intercept of (0,-8).

12) Find the equation of a parabola that has a vertex of (5,0) and has a y intercept of (0,-12).

13) Find the equation of a parabola that passes through (1,6), (2,5) and (0,5).

14) Find the equation of a parabola that passes through (0,6), (2,2) and (5,11).

15) Find the equation of a parabola that passes through (3,-10), (4,0) and (6,8).

16) Find the equation of a parabola that passes through (0,6), (-6,0) and (2,16).