FINDING THE EQUATION OF A QUADRATIC FUNCTION

Find the equation of a parabola has the following ${\bf x}$ intercepts and passes through the point indicated:

- 1) (-3,0) and (4,0) through (6, 2)
- 2) (-12,0) and (-3,0) through (0, 5)
- 3) (2,0) and (5,0) through (-4, 3)
- 4) (-2,0) and (6,0) through (-5, -5)
- 5) (1,0) and (7,0) through (0, -1)
- 6) (5,0) and (-3, 0) through (-1, 4)
- 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).
- Find the equation of a parabola that has a vertex of (0,3) and passes the x axis at (7,0).

