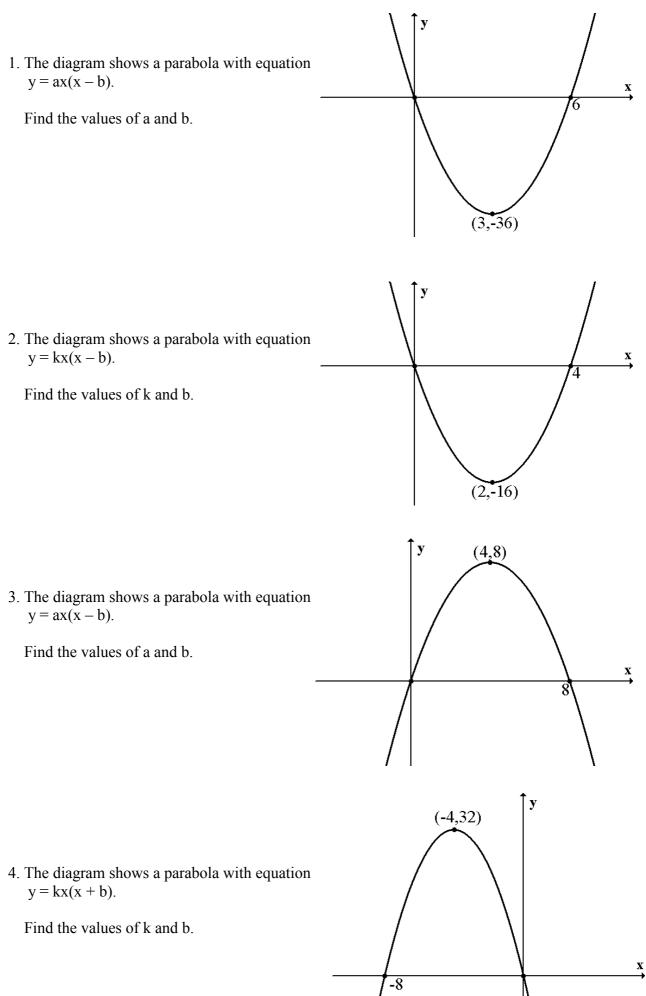
Functions from Graphs 2



5. The parabola opposite crosses the x-axis at (0,0) and (2,0)and has a minimum turning point at (1,-6). Find the equation of this parabola. (2,0)0 х (1,-6) y (4, 32)6. The parabola shown is of the form y = ax(x - b). It has a maximum turning point of (4,32) and P is the point (8,0). (a) Find the equation of the parabola. (b) The line y = -2x + 16 intersects this parabola at P and Q. Find the coordinates of Q. 7. (a) Find the equation of the parabola, f(x), shown opposite. (b) Find the coordinates of P. (c) Hence calculate the shaded area. Х y 18 8. The diagram shows the graph of y = f(x). The graph is of the form y = kx(x - b). (a) Find a formula for f(x). (b) Calculate the shaded area. 1 3 6 Х

