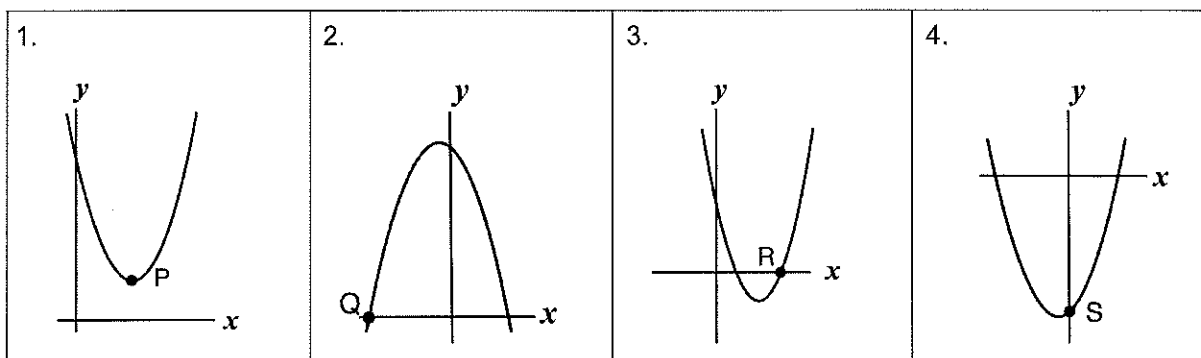


Quadratic Functions

1. Here are 4 equations of quadratic functions and 4 sketches of the graphs of quadratic functions.

A. $y = x^2 - 6x + 8$	B. $y = (x - 6)(x + 8)$	C. $y = (x - 6)^2 + 8$	D. $y = -(x + 8)(x - 6)$
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a. Match the equation to its graph and explain your decision.

Equation A **matches** Graph, because

.....

Equation B **matches** Graph, because

.....

Equation C **matches** Graph, because

.....

Equation D **matches** Graph, because

.....

b. Write the co ordinates of the points: P (.....) Q(.....) R (.....) S (.....)

2. The graph of a quadratic function has a y intercept at $(0,5)$ and a minimum at $(3, -4)$.

a. Write the equation of its curve.

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b. Write the coordinates of the root(s) of this quadratic function.

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