

ACTION

RESPONSE

Fluency



1) $2x^2 + 4x - 8$

5) $3x^2 - 12x + 2$

2) $5x^2 + 10x + 15$

6) $15 - 10x - x^2$

3) $3x^2 - 27x + 9$

7) $24 + 12x - 2x^2$

4) $2x^2 + 6x + 1$

8) $9 + 6x - 3x^2$

Reasoning



Sketch the graph of each equation below, showing its minimum or maximum point and where it crosses the x axis.

a) $y = 4 + 3x - x^2$

b) $y = 3x - 2 - x^2$

Problem Solving



By completing the square on $ax^2 + bx + c = 0$

Prove the quadratic formula.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



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