



Student's Name: _____

Grade 10th

25th September, 2025

Q1) Solve the following by factoring

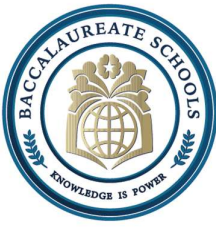
$$z^2 - 16z + 61 = 2z - 20$$

$$6w^2 - w = 5$$

Q2) Solve the quadratic equation by completing the square

$$t^2 - 10t + 34 = 0$$

$$4u^2 - 8u + 5 = 0$$



Q3) Use the quadratic formula to solve the quadratic equation

$$9w^2 - 6w = 101$$

$$.8u^2 + 5u + 70 = 5 - 7u$$

Q5) Bonus question:

The width of a rectangle is 1 m less than twice the length. If the area of the rectangle is 100 m² what are the dimensions of the rectangle? (*Hint: you need to formulate a quadratic equation then solve it*)