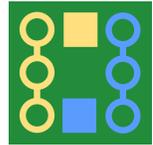


Pell's equation, answer form

Math Meet 2026



Your answers

1.
$$\frac{41}{29}$$
$$\frac{99}{70}$$

2.
$$41^2 - 2 \cdot 29^2 = -1$$
$$99^2 - 2 \cdot 70^2 = 1$$

3.
$$17^2 - 2 \cdot 12^2 = 1$$
$$99^2 - 2 \cdot 70^2 = 1$$
$$577^2 - 2 \cdot 408^2 = 1$$

4.
$$7^2 - 2 \cdot 5^2 = -1$$
$$1393^2 - 2 \cdot 985^2 = -1$$
$$275807^2 - 2 \cdot 195025^2 = -1$$

5.
$$u = w^1 z^1 \text{ or } u = wz$$

6.
$$v = w^2 z^1 \text{ or } v = w^2 z$$