*17. Using the proof of Theorem 5.5 as a model, show that if x and y are integers for which $x^4 - 2y^2 = 1$, then $x = \pm 1$, y = 0.

Theorem 5.5 The positive primitive solutions of $x^2 + y^2 = z^2$ with y even are $x = r^2 - s^2$, y = 2rs, $z = r^2 + s^2$, where r and s are arbitrary integers of opposite parity with r > s > 0 and (r, s) = 1.

The method we have devised here provides a model for attacking many other Diophantine equations. In fact, the approach is so successful that one may go to great lengths in order to make it applicable. For example, the equation $x^2 + 2 = y^3$ does not factor in the field of rational numbers, but we observe that $x^2 + 2 = (x + \sqrt{-2})(x - \sqrt{-2})$. In Section 9.9 we use the arithmetic of the algebraic integers in the field $\mathbb{Q}(\sqrt{-2})$ to treat this equation. In Section 9.10 a similar method is applied to the equation $x^3 + y^3 = z^3$.

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Puja Mehta

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