### 10th November

The square of \( w \) is 3

Write down the value of \( w^3 \)

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Given

\[
f(x) = 4x + 1
\]

\[
g(x) = 5 - 2x
\]

Find \( gf(5) \)

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A half of the students who study biology also study physics. The number of students who study physics is 50% more than those studying biology.

Find \( x \).

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There are 100 students in a college

\( B = \) number of students studying biology

\( P = \) number of students studying physics

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Simplify fully

\[
\frac{x^3 - x}{x + 2} \div \frac{x^2 - x}{x^2 - 5x - 14}
\]