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A student states that the product of two irrational numbers is always irrational.

One of the options is a counter example that shows the student's statement is incorrect.

Identify the counter example.

Circle your answer.

[1 mark]

$$e \times 0 = 0$$

$$\frac{1}{\pi} \times \pi = 1$$

$$\frac{1}{\sqrt{2}} \times \sqrt{6} = \sqrt{3}$$

$$2 \times \sqrt{3} = \sqrt{6}$$