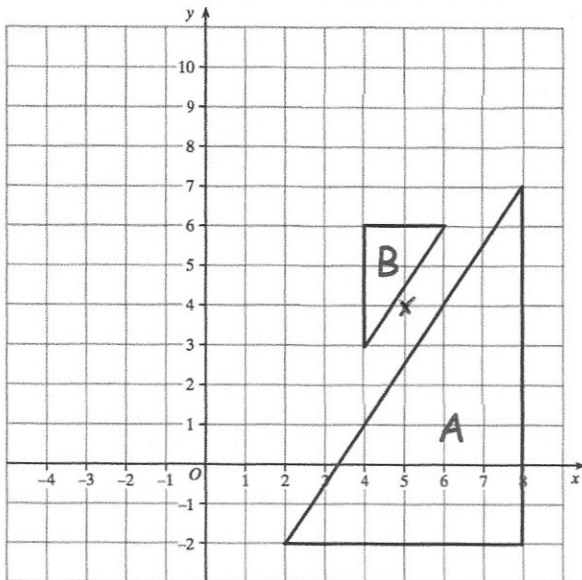




Without using a calculator, state if the answer is positive or negative

$$\frac{\sqrt[3]{500} - 60^2}{0.7 - 2} \approx \frac{8 - 3600}{-1.3}$$

Negative
 Negative = positive



Describe fully the single transformation that maps shape A onto shape B.

Enlargement
 Scale factor $-\frac{1}{3}$
 Centre (5, 4)

Factorise

$$2x^2 + 3x - 2$$

$$(2x - 1)(x + 2)$$

A biased dice is rolled 3 times.
 The probability of a six is 0.8.

What is the probability of 3 sixes?

$$0.8 \times 0.8 \times 0.8 = 0.512$$

What is the probability of at least 1 six?

$$P(\text{No sixes}) = 0.2 \times 0.2 \times 0.2 = \frac{1}{125}$$

$$1 - \frac{1}{125} = 0.992$$