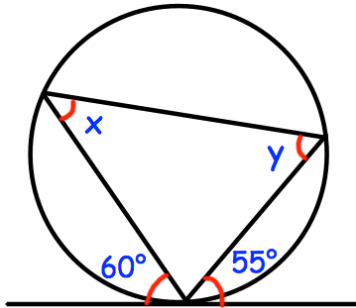




Shape A is translated by vector  $\begin{pmatrix} -4 \\ 9 \end{pmatrix}$  to make Shape B.

Shape B is translated by vector  $\begin{pmatrix} 8 \\ 0 \end{pmatrix}$  to make Shape C.

Describe the single transformation that maps Shape A to Shape C



Find x and y

Simplify fully

$$\frac{25x^2 - 9}{5x^2 - 17x - 12}$$

Write  $1.\dot{2}\dot{5}$  as a fraction.

Martin invests £500 into a savings account that pays X% compound interest per annum.

After 5 years, he has £750 in the account.

Find X