

2nd April



Corbettmaths

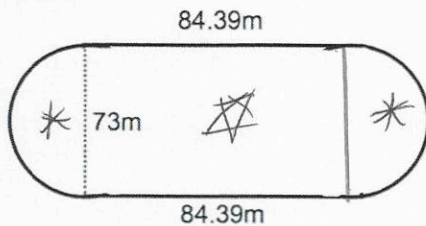
Expand and simplify

$$5(3x + 2) + 4(x + 9)$$

$$15x + 10 + 4x + 36$$

$$19x + 46$$

Find the area inside the running track.



Area of \ast $73 \times 84.39 = 6160.47$

Area of \ast (both) $\pi \times 36.5^2 = 4185.3868$

+

$10345.857m^2$

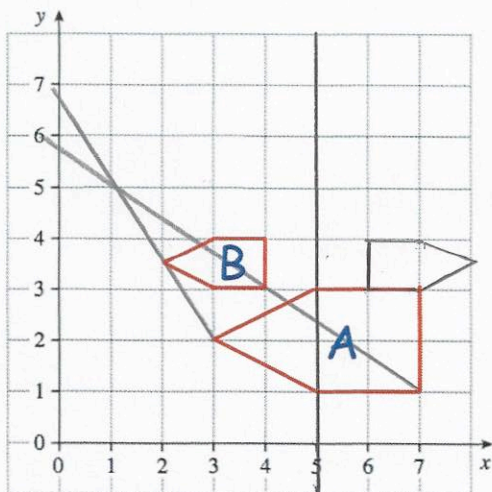
Here are the equations of four lines.

- Line 1 $2y = 8x + 6$ $y = 4x + 3$
- Line 2 $x + y = 6$ $y = -x + 6$
- Line 3 $4x - y = 5$ $y = 4x - 5$
- Line 4 $4x + 2y = 1$ $y = -2x + \frac{1}{2}$

Two of the lines are parallel.

Which lines?

1 2 3



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

Enlargement by scale factor $\frac{1}{2}$,
centre of enlargement $(1, 5)$

Reflect B in the mirror line $x = 5$