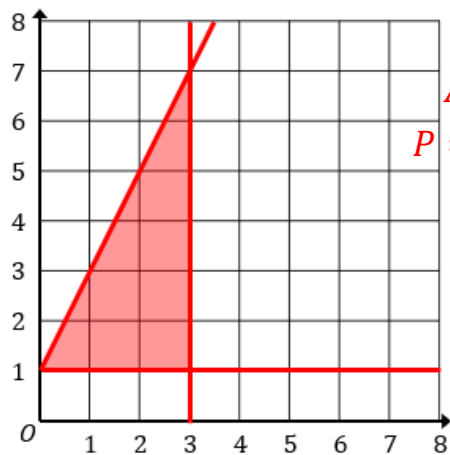


Straight Lines, Areas and Perimeters

Plot each set of three straight lines to form a triangle. Find the area and perimeter of the triangle formed, giving perimeters to 3 significant figures.

(a)

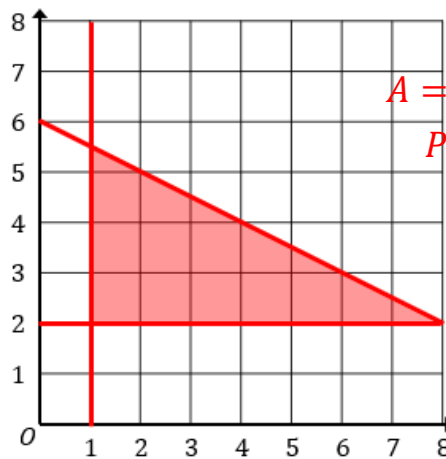
$y = 2x + 1$ $y = 1$ $x = 3$



$A = 9 \text{ units}^2$
 $P = 15.7 \text{ units}$

(b)

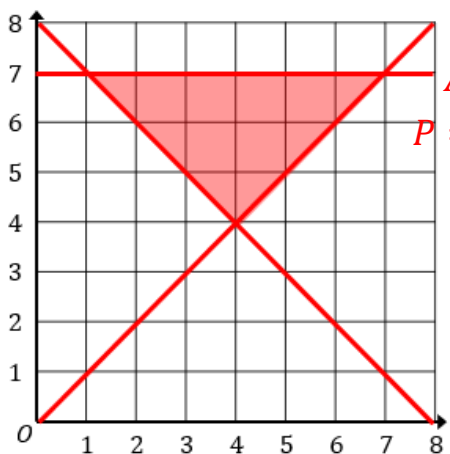
$y = 6 - 0.5x$ $y = 2$ $x = 1$



$A = 12.25 \text{ units}^2$
 $P = 18.3 \text{ units}$

(c)

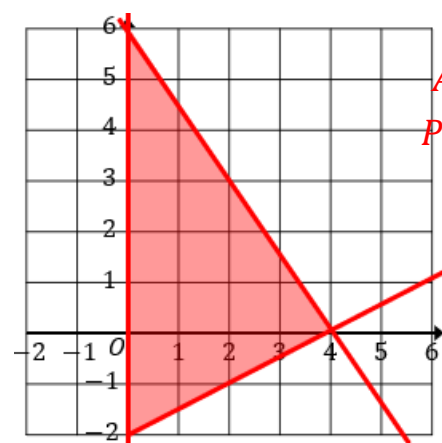
$x + y = 8$ $y = x$ $y = 7$



$A = 9 \text{ units}^2$
 $P = 14.5 \text{ units}$

(d)

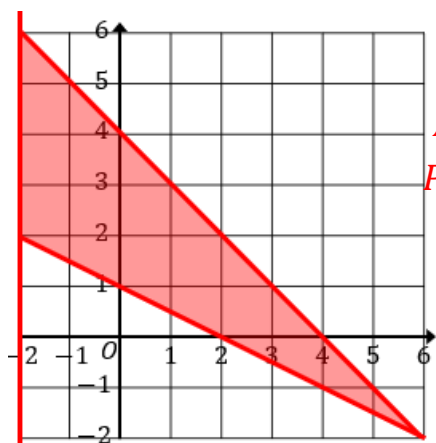
$3x + 2y = 12$ $y = 0.5x - 2$ $x = 0$



$A = 16 \text{ units}^2$
 $P = 19.7 \text{ units}$

(e)

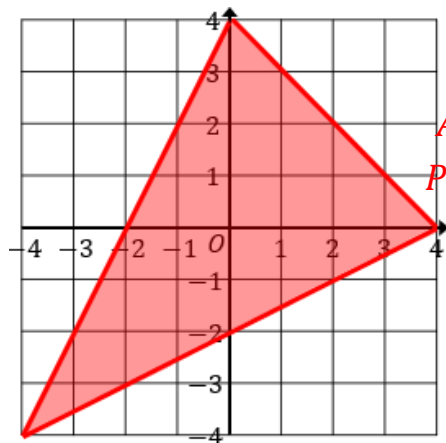
$x + y = 4$ $y = 1 - 0.5x$ $x = -2$



$A = 16 \text{ units}^2$
 $P = 24.3 \text{ units}$

(f)

$y = 2x + 4$ $x + y = 4$ $y = 0.5x - 2$



$A = 24 \text{ units}^2$
 $P = 23.5 \text{ units}$