

G. Tentukan sama ada pasangan garis lurus berikut adalah selari atau tidak.

CONTOH

$y = 3x + 5$ dan $6x - 2y = 9$

Bandingkan kecerunan kedua-dua persamaan.

$y = 3x + 5$
 $\uparrow$
 $m = 3$

$6x - 2y = 9$
 $-2y = -6x + 9$
 $y = \frac{-6x}{-2} + \frac{9}{-2}$
 $y = 3x - \frac{9}{2}$
 $\uparrow$
 $m = 3$

Kecerunan kedua-dua garis lurus adalah sama.
 Maka, $y = 3x + 5$ adalah selari dengan $6x - 2y = 9$.

1. $y = -2x - 7$ dan $4x + 2y = 9$

$\downarrow$
 $m = \square$

$4x + 2y = 9$

$2y = \square + 9$

$\frac{2y}{\square} = \frac{-4x}{\square} + \frac{9}{\square}$

Selari $\square$ $y = \square x + \frac{9}{2}$

tidak selari $\square$ $m = \square$

2. $-3y = -6x - 11$ dan $y + 2x = 14$

$\swarrow \searrow$
 $\frac{-3y}{\square} = \frac{-6x}{\square} - \frac{11}{\square}$ $y = \square + 14$

$y = \square x + \frac{11}{3}$ $m = \square$

$m = \square$ Selari $\square$

tidak selari $\square$

3. $y = 3x + 4$ dan $8x + 2y = 15$

$\swarrow$
 $m = \square$

$2y = \square + 15$

$\frac{2y}{\square} = \frac{\square}{\square} x + \frac{15}{\square}$

Selari $\square$ $y = \square x - \frac{\square}{\square}$

tidak selari $\square$ $m = \square$

4. $2x + 3y = 6$ dan $-4x - 6y = 6$

$3y = \square + 6$ $-6y = \square + 6$

$y = \frac{\square}{\square} x + \frac{6}{\square}$ $-6y = \frac{\square}{\square} x + \frac{6}{\square}$

$m = \frac{\square}{\square}$ $y = \frac{\square}{\square} x + \frac{4}{\square}$

Selari $\square$

tidak selari $\square$

5. $2x - 5y = 4$ dan $2y = 5x - 13$

$\downarrow$
 $-5y = \square + 4$

$\frac{2y}{\square} = \frac{5}{\square} x - \frac{\square}{\square}$

$\frac{-5y}{\square} = \frac{\square}{\square} x + \frac{4}{\square}$ $y = \frac{\square}{\square} x - \frac{13}{2}$

$y = \frac{\square}{\square} x + \frac{4}{\square}$ $m = \frac{\square}{\square}$

$m = \frac{\square}{\square}$

Selari $\square$

tidak selari $\square$