

Name : \_\_\_\_\_

## Parallel and Perpendicular Lines

Sheet 4

- 1) The lines  $y = \frac{k}{3}x - 4$  and  $y - 7x - 21 = 0$  are perpendicular. Find the value of  $k$ .

$k =$  \_\_\_\_\_

- 2) If the lines  $y - ix = -12$  is parallel to the line  $4x - y + 4 = 0$ , find the value of  $n$ .

$n =$  \_\_\_\_\_

- 3) The lines  $l$  and  $m$  are perpendicular. Equation of line  $l$  is  $5x - 2y + 10 = 0$  and  $10x - 5y = -8$  respectively. Find the value of  $d$ .

$d =$  \_\_\_\_\_

- 4) The line  $y - sx = -7$  is perpendicular to the line  $2x - 3y + 1 = 0$ . Find the value of  $s$ .

$s =$  \_\_\_\_\_

- 5) Equation of a line  $f$  is  $y = hx + 9$ . Equation of a line  $g$  is  $5y - x - 6 = 0$ . The lines  $f$  and  $g$  are perpendicular. Find the value of  $h$ .

$h =$  \_\_\_\_\_

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