14-09-23-T8

Find the intersection (if it exists) of each pair of lines.

1) $y = \frac{3}{2}x + 5$
$y = -\frac{3}{2}x - 7$

2) $y = 8$
$y = \frac{11}{5}x - 3$

3) $y = x - 6$
$y = -4x - 1$

4) $y = -\frac{1}{6}x - 9$
$y = x - 2$

5) $5x - y = 2$
$2x + y = -9$

6) $2x - 3y = 12$
$2x + 9y = 36$

7) $2x - 5y = -30$
$2x - y = 2$

8) $9x + y = 5$
$9x + y = 8$

9) $11x - 5y = 40$
$x + 5y = 20$

10) $3x + 2y = -14$
$x + 2y = 2$

Answers to 14-09-23-T8

1) $(-4, -1)$
2) $(5, 8)$
3) $(1, -5)$
4) $(-6, -8)$
5) $(-1, -7)$
6) $(9, 2)$
7) $(5, 8)$
8) No solution
9) $(5, 3)$
10) $(-8, 5)$