[14-02-12-T8]

Eqn Line

■ **Find the point of intersection of each pair of lines. If the lines do not intersect, say so.**

[1] $y = 3\,x + 2,\ y = 2\,x - 1$

[2] $y = \frac{2}{3}\,x + 2,\ y = x - 8$

[3] $y = \frac{-2}{5}\,x + 3,\ y = 5\,x - 8$

[4] $y = 2,\ x = 3$

[5] $y = \frac{7}{9}\,x + 3,\ y = \frac{7}{9}\,x - 5$

[6] $y = -7\,x - 1,\ y = 7\,x + 1$

[7] $y = -3\,x + 5,\ y = \frac{1}{3}\,x - 3$

[8] What do the graphs of the lines in [4] look like?

[9] What do the graphs of the lines in [5] look like?

[10] What do the graphs of the lines in [7] look like?

Solutions

[1] $(-3, -7)$

[2] $(30, -22)$

[3] $(\frac{-55}{27}, \frac{59}{27})$

[4] $(2, 3)$

[5] $\{\}$

[6] $(\frac{-1}{7}, 0)$

[7] $(\frac{12}{5}, \frac{-11}{5})$