

Retta perpendicolare

Periodo 2 - UdA 3

Trovare una retta perpendicolare a quella data passante per il punto P .
Rappresentare graficamente le rette e il punto

$$[1] \quad y = -2x + 1 \quad P(-2; -1) \quad [2] \quad y = -\frac{3}{4}x + 2 \quad P(-3; -5)$$

$$[3] \quad y = -\frac{2}{3}x - 3 \quad P(2; 4) \quad [4] \quad y = \frac{2}{3}x - 2 \quad P(0; -1)$$

$$[5] \quad y = \frac{3}{5}x \quad P\left(\frac{3}{2}; -\frac{3}{2}\right) \quad [6] \quad y = \frac{1}{2}x + \frac{1}{3} \quad P\left(\frac{1}{3}; -\frac{4}{3}\right)$$

$$[7] \quad y = -3x - \frac{1}{3} \quad P\left(\frac{1}{2}; \frac{2}{3}\right) \quad [8] \quad y = -x + \frac{3}{2} \quad P(-1; 0)$$

$$[9] \quad y = \frac{1}{3}x \quad P\left(\frac{1}{3}; -\frac{2}{3}\right) \quad [10] \quad y = \frac{5}{2}x - \frac{1}{4} \quad P\left(0; \frac{3}{4}\right)$$

$$[11] \quad y = \frac{1}{3}x - \frac{2}{5} \quad P\left(-\frac{3}{5}; 2\right) \quad [12] \quad y = 4x + \frac{1}{2} \quad P\left(2; -\frac{3}{2}\right)$$

$$[13] \quad y = \frac{3}{2}x - \frac{2}{3} \quad P\left(-1; \frac{4}{3}\right) \quad [14] \quad y = \frac{1}{4}x + \frac{3}{4} \quad P\left(\frac{1}{4}; -\frac{5}{4}\right)$$

$$[15] \quad y = -\frac{1}{3} \quad P\left(-\frac{1}{6}; -\frac{1}{3}\right) \quad [16] \quad x = -\frac{1}{3} \quad P\left(\frac{1}{3}; -1\right)$$

SOLUZIONI

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[1] $y = \frac{1}{2}x$

[2] $y = \frac{4}{3}x - 1$

[3] $y = \frac{3}{2}x + 1$

[4] $y = -\frac{3}{2}x - 1$

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

[6] $y = -2x - \frac{2}{3}$

[7] $y = \frac{1}{3}x + \frac{1}{2}$

[8] $y = x + 1$

[9] $y = -3x + \frac{1}{3}$

[10] $y = -\frac{2}{5}x + \frac{3}{4}$

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

[12] $y = -\frac{1}{4}x - 1$

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

[14] $y = -4x - \frac{1}{4}$

[15] $x = -\frac{1}{6}$

[16] $y = -1$