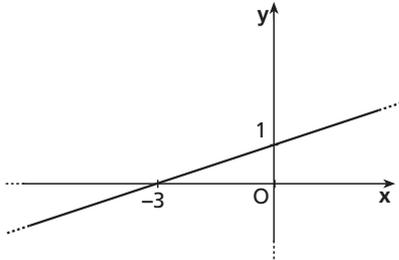


TEST YOUR SKILLS

- 1 TEST** Select the equation that matches the graph.



- A** $y = 3x + 1$ **C** $y = 3x + 3$
 B $y = -3x + 1$ **D** $y = \frac{1}{3}x + 1$

(USA Temple College, Texas, Practice Test, 2005)

- 2 TEST** If the graphs of $2y + x + 3 = 0$ and $3y + ax + 2 = 0$ are to meet at right angles, then a is:

- A** -6 . **B** 6 . **C** $-\frac{2}{3}$. **D** $\frac{3}{2}$. **E** 0 .

(USA North Carolina State High School Mathematics Contest, 2003)

- 3 TEST** What is the equation of the perpendicular bisector of the segment with endpoints $(-12; 15)$ and $(4; -3)$?

- A** $y = \frac{8}{9}x + \frac{86}{9}$
 B $y = -\frac{8}{9}x + \frac{22}{9}$
 C $y = \frac{9}{8}x + \frac{33}{2}$
 D $y = \frac{8}{9}x - \frac{28}{3}$

(USA Catawba College NCCTM Mathematics Contest, 2005)

- 4** Determine all points on the straight line which joins $(-4; 11)$ to $(16; -1)$ and whose coordinates are positive integers.

(CAN Canadian Open Mathematics Challenge, 1997)

$[(1; 8), (6; 5), (11; 2)]$

GLOSSARY

endpoint: estremo
graph: grafico
to join: congiungere

to match: combaciare
to meet-met-met:
 incontrarsi

perpendicular bisector: asse
right angle: angolo retto
straight line: linea retta